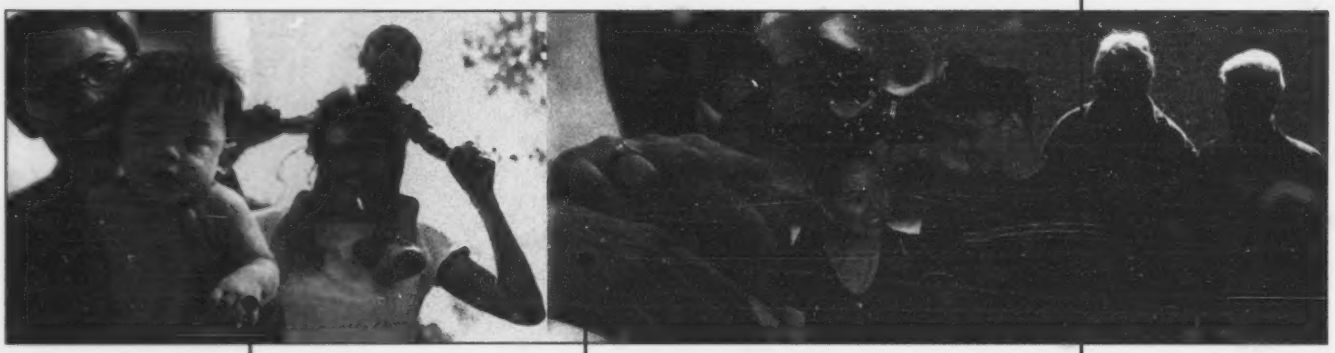
Selected Vital Statistics and Health Status Indicators

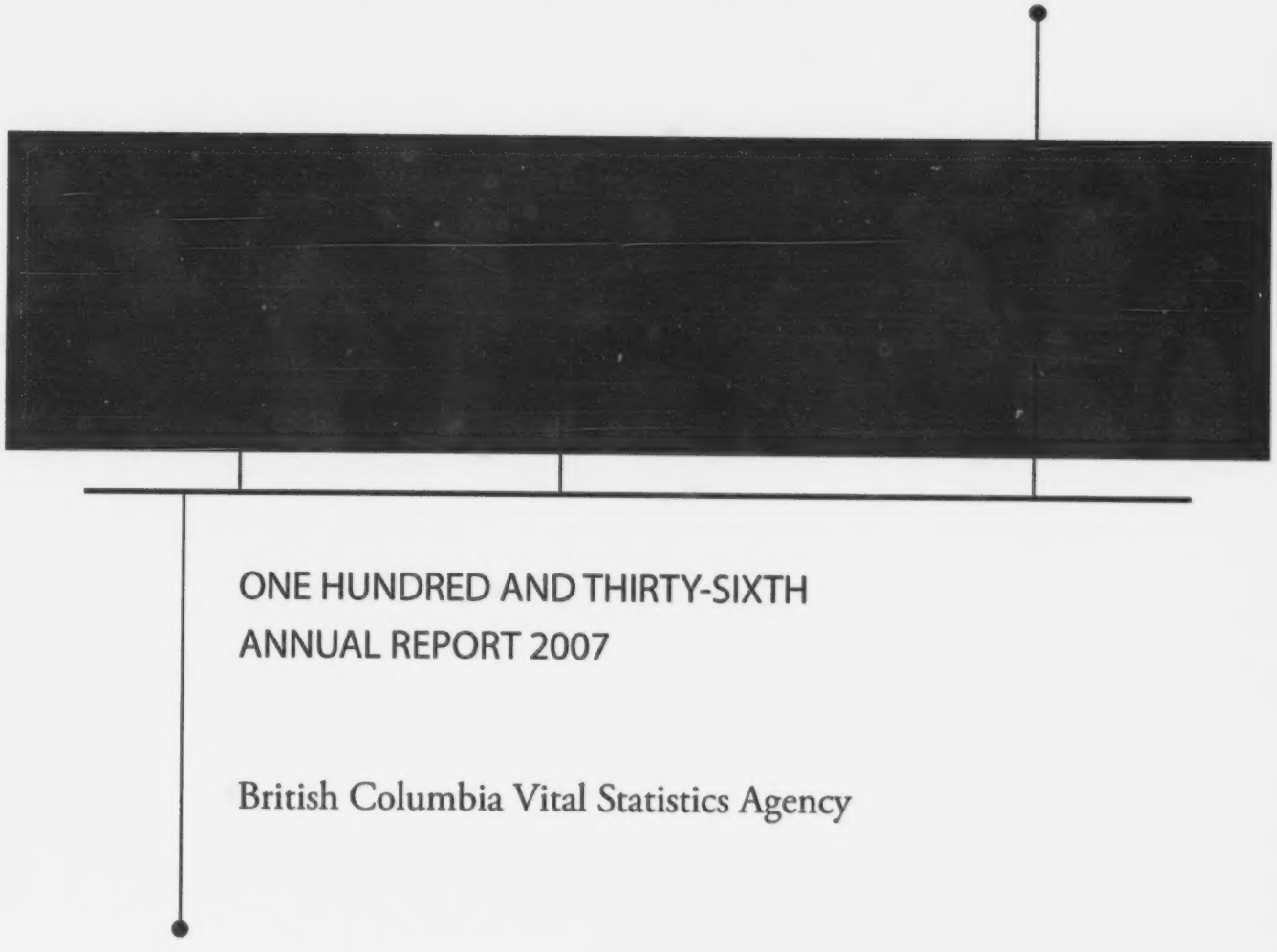


ONE HUNDRED AND THIRTY-SIXTH
ANNUAL REPORT 2007

British Columbia Vital Statistics Agency

BRITISH COLUMBIA
The Best Place on Earth

Selected Vital Statistics and Health Status Indicators



ONE HUNDRED AND THIRTY-SIXTH
ANNUAL REPORT 2007

British Columbia Vital Statistics Agency

Foreword

The British Columbia Vital Statistics Agency (the *Agency*) is pleased to present the 2007 Annual Report, the one hundred and thirty-sixth published since the establishment of the Division of Vital Statistics in 1872. The tables, figures, and maps in this publication are based on information collected from registrations of live births, stillbirths, deaths, and marriages, as registered by the Agency for events occurring in the 2007 calendar year.

This publication contains approximately 100 tables, figures, and maps that summarize selected information about the vital events taking place in British Columbia (BC). Although some tables and information relate to vital events occurring within the province which may include visitors to BC, such as marriages, the majority are specific to residents of BC.

The information relating only to residents is important for evaluating and monitoring the health status of the province's population.

Throughout the report, key indicators are presented for the province's Health Authorities (HA), Health Service Delivery Areas (HSDA) and Local Health Areas (LHA). The report includes a detailed *Glossary*, defining the terms used in the body of the publication; as well as a *Methodology* section, explaining the statistical computations in the main body. A set of *Information Boxes* supplement the standard tables with information on a wide range of subjects, from a profile of a *Typical Day in British Columbia* to *Place of Birth for Midwife Assisted Births* and *Usual Residence of People Married in 2007*.

Beginning with the 2000 Annual Report, the Agency has presented data using the tenth revision of the World Health Organization's *International Statistical Classification of Diseases and Related Health Problems* (ICD-10) coding scheme. Where possible, this report follows a format consistent with previous annual reports that presented statistics from the current year along with comparative statistics from the preceding five years. However, some tables and figures present statistics prior to 2000 when an earlier version of the coding scheme (ICD-9) was in effect. Many changes in the codes and in the rules for selection of the underlying cause of death preclude direct comparison of ICD-9 and ICD-10 data. Extensive manual reviews using translation tables in conjunction with recoding of data from ICD-9 to ICD-10 enabled the production of trend data. This approach is unique to publications of *the Agency*.

The Agency, would like to acknowledge the many groups and individuals who ensure complete and accurate recording of vital events. Their contributions have resulted in continual improvement in the quality of vital event data and the quality of this report.

Original signed by,

Jack Shewchuk
Acting Chief Executive Officer
British Columbia Vital Statistics Agency

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General Information

Introduction

The Agency is responsible for the ascertainment, registration, and certification of vital events through the administration of the *Vital Statistics Act*, *Marriage Act*, and *Name Act*. Statistical information contained in this report is summary data provided by *the Agency* for use by government agencies, health planners, researchers, and the general public. In order to maintain confidentiality, the information does not disclose personally identifiable data.

Registrations

Section 44 of the *Vital Statistics Act* states: "As soon as convenient after January 1 in each year, the chief executive officer must make, for the use of the Legislative Assembly and for public information, a statistical report of the births, stillbirths, marriages, deaths, adoptions and changes of name registered during the preceding calendar year."

The table below is presented to fulfill these requirements.

VITAL EVENTS REGISTERED IN BRITISH COLUMBIA IN 2007

Event Type	Residents	Non-Residents	Total
Live Births	43,517	188	43,705
Deaths	31,105	271	31,376
Stillbirths	350	2	352
Marriages[1]	20,465	2,496	22,961
Adoptions	600	102	702
Changes of Name[2]	4,654	-	4,654

Note: [1]Residents include marriages where only one party was a British Columbia resident, as well as those where both parties were residents.

[2]These registrations resulted in 5,066 name changes.

Although the *Vital Statistics Act* requires registration of events that occurred in the province, and Section 44 specifically requires that these be reported, vital events are often a reflection of the health status of the population, therefore most of the information in this report pertains to residents. Specifically, live birth, stillbirth, and death statistics summarize events that occurred in the province to BC residents only, and exclude events to non-residents except where noted. Marriage statistics summarize all events that occurred in the province to either residents or non-residents. Vital events that occurred to BC residents outside the province are not shown in this report; Statistics Canada makes adjustments for events that occur to Canadians outside their province of usual residence in its publications.

VITAL EVENT DATA

Data presented in this report are based on registrations of birth, stillbirth, death, and marriage as reported to *the Agency*. Registration requirements for each type of event are outlined briefly as follows:

Live Births: The *Vital Statistics Act* prescribes the legal requirements for the registration of live births. The parent(s) of the child have the responsibility to complete the Registration of Live Birth within 30 days of the event. The physician or registered midwife who was in attendance at the birth must complete a *Notice of Live Birth or Stillbirth* (NOB) form which must be made available to *the Agency* within 48 hours of the event. Other requirements must be met if the birth was not attended by a physician or registered midwife.

Stillbirths: In the event of a stillbirth, the parent(s) must complete the Registration of Stillbirth. The physician or registered midwife who was in attendance at the birth must complete a *Notice of Live Birth or Stillbirth* (NOB) form. In addition, a physician or coroner is required to complete the Medical Certification of Stillbirth portion of the Registration of Stillbirth and deliver it to the funeral director who in turn submits it to *the Agency*.

Deaths: The physician in attendance at the last illness of the deceased person, or the coroner conducting an inquiry into the death of the person is required to complete a *Medical Certification of Death*. The *Registration of Death* is completed by the informant with assistance from the funeral home. The funeral home director submits both documents to *the Agency* to complete the registration and proceeds to issue the burial permit.

Marriages: The *Marriage Act* prescribes the legal qualifications of individuals to marry, the authorization of *Religious Representatives* and *Marriage Commissioners* to perform the marriage ceremony, and the solemnization of marriage. Under the *Marriage Act*, *the Agency* licences *Religious Representatives* of established religious denominations who desire the authority to solemnize marriage. *The Agency* recommends for appointment *Marriage Licence Issuers* and *Marriage Commissioners* to perform civil ceremonies.

Couples who meet the legal qualifications to marry must obtain a marriage licence up to 90 days before the ceremony. They can choose a civil ceremony performed by a *Marriage Commissioner* or a religious ceremony performed by a *Religious Representative*. The *Registration of Marriage* is completed by the officiant after the ceremony, and must be signed by the officiant, the parties getting married, and two witnesses.

MEDICAL CODING

The *Notice of Live Birth or Stillbirth (NOB)* includes information on birth weight, gestation, and mode of delivery, as well as abnormalities of the infant and complications of pregnancy, labour, and delivery. The *Medical Certification of Death* and the *Medical Certification of Stillbirth* include information on the immediate cause of death or stillbirth, antecedent causes giving rise to the immediate cause, and other significant conditions contributing to the death or stillbirth. This information is processed by medically trained staff using the World Health Organization's *International Statistical Classification of Diseases* (ICD) coding scheme. For deaths, the coding system is applied via a coding software developed in the United States and distributed for use across Canada by Statistics Canada. In some instances *the Agency's* medical coding staff has determined that strict adherence to the automated ICD classification process would misstate the intention of the physician completing the *Medical Certification of Death*. In these cases *the Agency* deviates slightly from standard ICD coding software output for the material presented in this report. Data coded to automated ICD classification standards are maintained by *the Agency* for comparison to other jurisdictions and for submission to Statistics Canada. The data presented in this report do not necessarily correspond to data for BC published elsewhere.

Since the early 1900s, the *International Statistical Classification of Diseases* (ICD) has been revised regularly in order to reflect advances in medical science and changes in diagnostic terminology. The ninth revision of ICD (ICD-9) was used for medical coding of birth complications and causes of death from 1979 until 1999. Coding according to the tenth revision (ICD-10) was implemented at the beginning of the year 2000. Many changes in the codes and in the rules for selection of the underlying cause of death precluded direct comparison of data in ICD-10 with data from earlier years. Translation tables were used, and extensive manual reviews and recoding of data from ICD-9 to ICD-10 were completed in order to be able to provide trend data in this annual report.

TIME PERIODS

This report pertains to events that occurred in the calendar year 2007. Selected tables present aggregate information for the previous five-year period. These broader time periods permit more meaningful tests of statistical significance when analyzing data at sub-provincial levels, and can smooth out random fluctuations that occur when annual numbers are small. For regional health status profiles, readers are encouraged to refer to measures of statistical significance and use data presented for the five-year aggregates.

The data for earlier years have been updated and may differ from other publications. Readers should treat this report as a replacement of previous publications and avoid comparisons with tables in earlier publications.

POPULATION DATA

Mid-year population estimates for incorporated communities, local health areas, and health regions were provided by BC STATS, Ministry of Labour and Citizens' Services. In the mortality section of this report, a 'standard population' is used in the calculation of Age Standardized Mortality Rates (ASMR) and Potential Years of Life Lost Standardized Rates (PYLLSR). *The Agency* has used the 1991 Canadian Census population as the 'standard population' in the calculation of these age-standardized measures since 1998. Please refer to *Standard Population* in the *Glossary* for a more detailed description and the *Methodology* section for examples of computations of measures and statistical tests.

SPATIAL ANALYSIS AND MAPPING

This report presents regional analyses using data dissemination areas used by the Ministry of Health Services (Health Authority, Health Service Delivery Area, and Local Health Area) and for incorporated communities (see Figures 1 and 2). This continues the practice established in 2001 and provides Health Authorities a consistent time series of health status indicators for their regions. Health care services are managed and delivered by five Health Authorities (HAs) that govern, plan, and coordinate services regionally within 16 Health Service Delivery Areas (HSDAs). The Interior Health Authority encompasses four HSDAs. Fraser, Vancouver Coastal, Vancouver Island, and Northern Health Authorities, each consists of three HSDAs. HSDAs can be further divided in Local Health Areas (LHAs). Vital events are allocated to these data dissemination areas by the postal codes recorded on registration documents.

Marriages are assigned geographically by the postal code of the location where the marriage ceremony was performed; other vital events are assigned by the usual residence of the parents (for live births and stillbirths) or the decedent (for deaths).

Converting statistical data to maps can often reveal relationships that are not readily discernable in tabular form. The maps in this report present local health area data ranked by quintiles and allow easy visual examination of spatial patterns. Although statistics for all LHAs are presented in the maps, emphasis should be placed on those that are statistically significant. Maps have been included in the Vital Statistics Annual Reports since 1989 in order to disseminate relevant community level health information to the public and to local health service providers, planners, and educators. These allow communities to address their own specific health challenges and identify local health priorities. This can foster locally based solutions and more appropriate decision making.

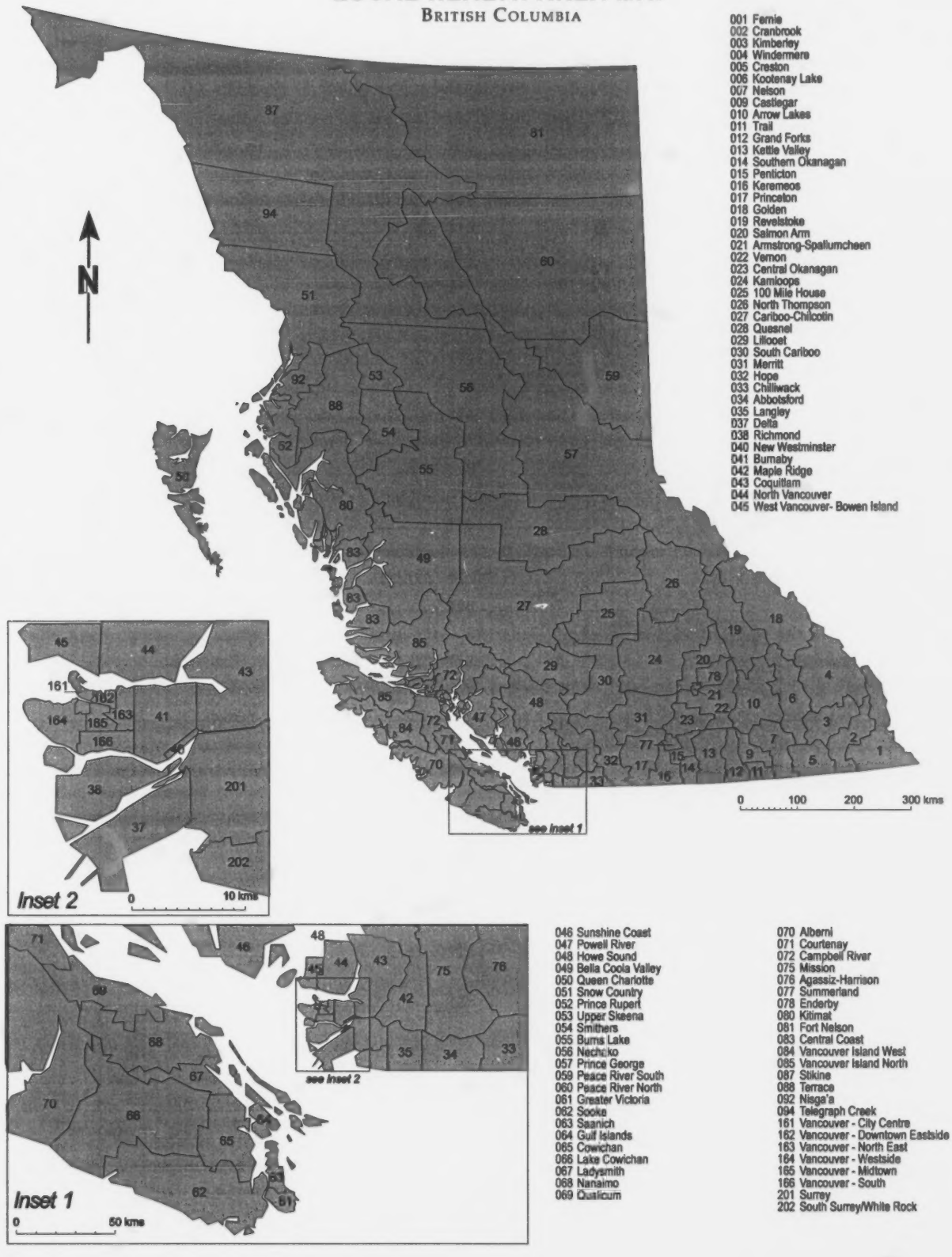
TERMS, METHODS, AND COMPUTATIONAL EXAMPLES

Readers are encouraged to refer to the *Glossary* for explanations of terms. The *Methodology* section provides examples of computations of measures and statistical tests.

FIGURE 1

LOCAL HEALTH AREA MAP

BRITISH COLUMBIA



001 Fernie
002 Cranbrook
003 Kimberley
004 Windermere
005 Creston
006 Kootenay Lake
007 Nelson
009 Castlegar
010 Arrow Lakes
011 Trail
012 Grand Forks
013 Kettle Valley
014 Southern Okanagan
015 Penticton
016 Keremeos
017 Princeton
018 Golden
019 Revelstoke
020 Salmon Arm
021 Armstrong-Spallumcheen
022 Vernon
023 Central Okanagan
024 Kamloops
025 100 Mile House
026 North Thompson
027 Cariboo-Chilcotin
028 Quesnel
029 Lillooet
030 South Cariboo
031 Merritt
032 Hope
033 Chilliwack
034 Abbotsford
035 Langley
037 Delta
038 Richmond
040 New Westminster
041 Burnaby
042 Maple Ridge
043 Coquitlam
044 North Vancouver
045 West Vancouver- Bowen Island

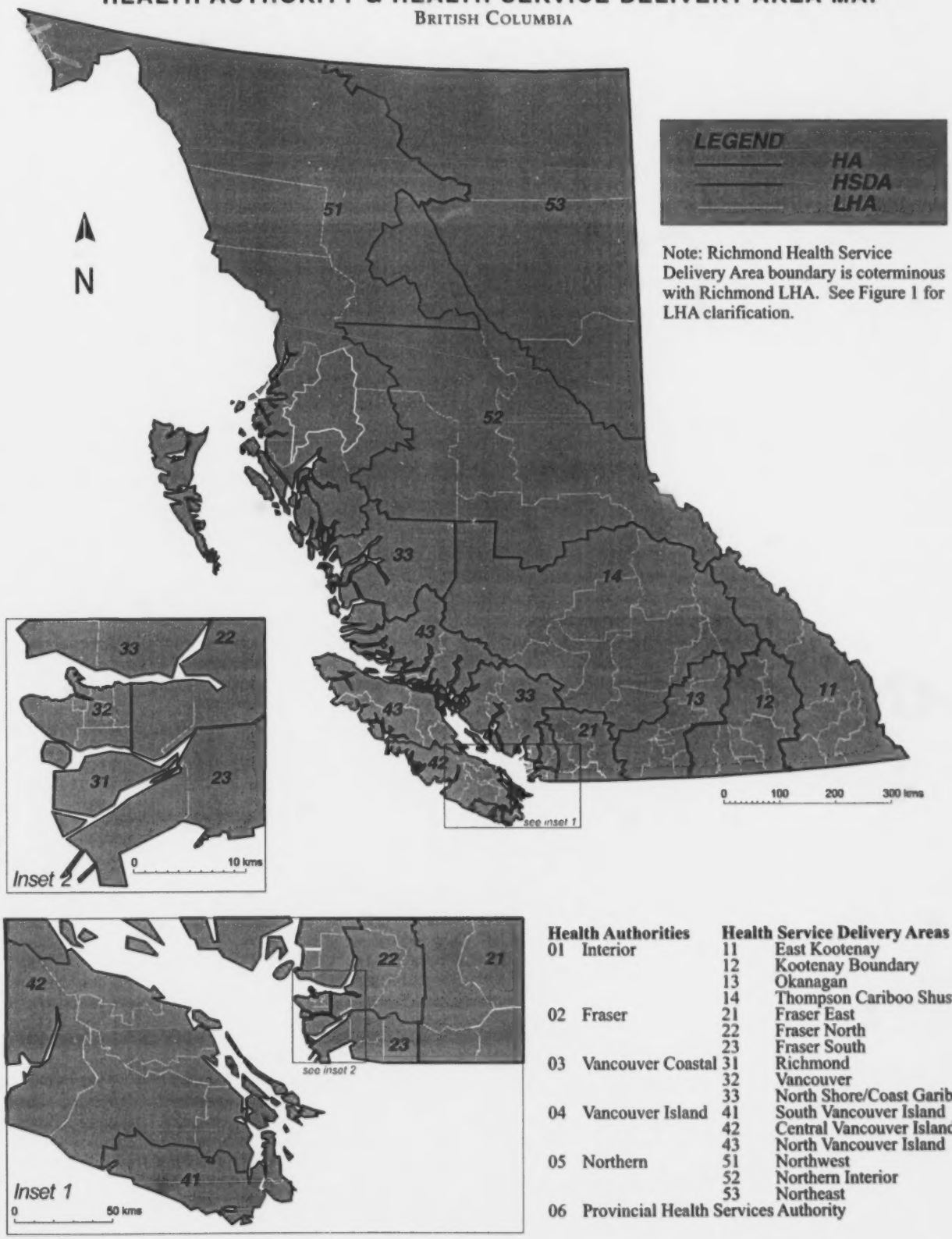
046 Sunshine Coast
047 Powell River
048 Howe Sound
049 Bella Coola Valley
050 Queen Charlotte
051 Snow Country
052 Prince Rupert
053 Upper Skeena
054 Smithers
055 Burns Lake
056 Nechako
057 Prince George
059 Peace River South
060 Peace River North
061 Greater Victoria
062 Sooke
063 Saanich
064 Gulf Islands
065 Cowichan
066 Lake Cowichan
067 Ladysmith
068 Nanaimo
069 Qualicum

070 Alberni
071 Courtenay
072 Campbell River
075 Mission
076 Agassiz-Harrison
077 Summerland
078 Enderby
080 Kitimat
081 Fort Nelson
083 Central Coast
084 Vancouver Island West
085 Vancouver Island North
087 Stikine
088 Terrace
092 Nisga'a
094 Telegraph Creek
161 Vancouver - City Centre
162 Vancouver - Downtown Eastside
163 Vancouver - North East
164 Vancouver - Westside
165 Vancouver - Midtown
166 Vancouver - South
201 Surrey
202 South Surrey/White Rock

FIGURE 2

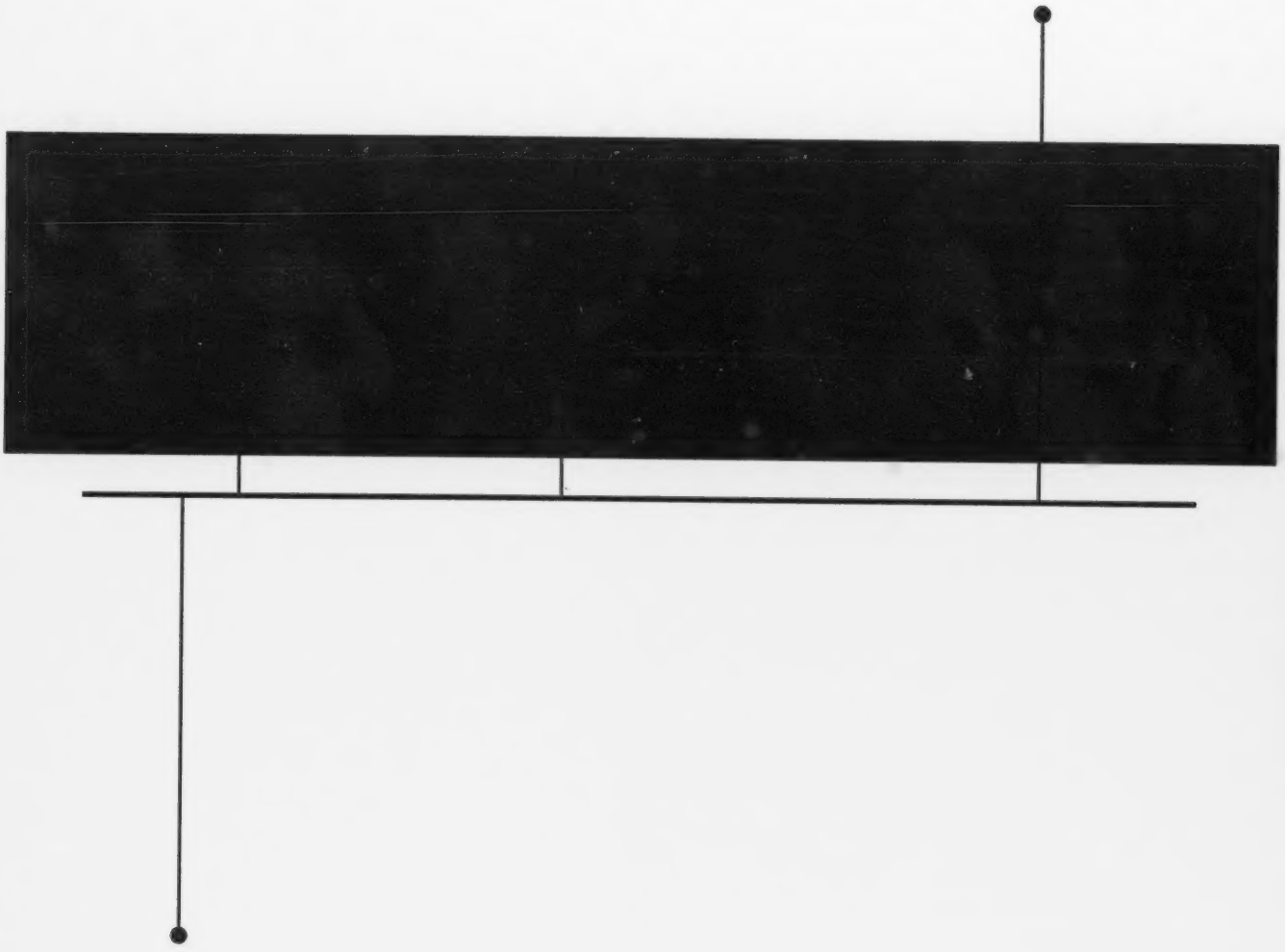
HEALTH AUTHORITY & HEALTH SERVICE DELIVERY AREA MAP

BRITISH COLUMBIA



Health Authorities		Health Service Delivery Areas	
01	Interior	11	East Kootenay
		12	Kootenay Boundary
		13	Okanagan
		14	Thompson Cariboo Shuswap
02	Fraser	21	Fraser East
		22	Fraser North
		23	Fraser South
03	Vancouver Coastal	31	Richmond
		32	Vancouver
		33	North Shore/Coast Garibaldi
04	Vancouver Island	41	South Vancouver Island
		42	Central Vancouver Island
		43	North Vancouver Island
05	Northern	51	Northwest
		52	Northern Interior
		53	Northeast
06	Provincial Health Services Authority		

Trends in Vital Events



Vital Statistics Information Box

On a Typical Day in British Columbia in 2007

119 LIVE BIRTHS OCCURRED IN THE PROVINCE TO BC RESIDENTS:

- 61 males and 58 females were born
- 4 were born to teenage mothers
- 27 were born to mothers aged 35 years old or more
- 4 were multiple births
- 37 were cesarean deliveries
- 7 were low birth weight babies
- 9 were pre-term
- 62 live births involved maternal complications
- 40 babies had perinatal complications
- 10 stillbirths every 10 days

85 DEATHS OCCURRED IN THE PROVINCE TO BC RESIDENTS:

- 44 males and 41 females died
- 67 deaths were seniors aged 65 years old or more including
  - 43 deaths aged 80 years old or more
- 7 deaths every 10 days were children less than 15 years old including
  - 5 infant deaths every 10 days
- 26 deaths were due to diseases of the circulatory system including
  - 18 from cardiovascular disease
  - 6 from cerebrovascular disease
- 24 deaths were due to malignant neoplasms (cancer) including
  - 6 from malignant neoplasm of trachea and lung
  - 3 from malignant neoplasm of colon and rectum
  - 2 from malignant neoplasm of female breast
- 9 deaths were due to diseases of the respiratory system including
  - 3 from pneumonia and influenza
  - 4 from chronic pulmonary disease
- 3 deaths every 10 days were due to HIV disease
- 4 deaths were from external causes including
  - 1 suicide
  - 1 motor vehicle accident
  - 1 unintentional fall
- 5 deaths were alcohol-related:
  - 1 directly due to alcohol and 4 indirectly due to alcohol
- 1 death was drug-induced
- 17 deaths were attributed to smoking

63 MARRIAGES WERE SOLEMNIZED IN THE PROVINCE:

- 39 were civil ceremonies and 24 were performed by religious representatives
- 41 marriages were to couples where both parties were marrying for the first time
- 2 marriages every 10 days were to couples where both parties were teenagers

Trends Introduction

The tables and figures in this part of the Annual Report provide a long term historical review of birth, death, and marriage statistics during the past few decades. They provide a broad context for the recent vital event statistics shown in other parts of this report. Long term trends are always useful for evaluating recent events and trends, so the tables and figures are often cross referenced to related tables in subsequent parts of the report.

Overview

This section begins with a review of population, live birth, stillbirth, death and marriage trends. This is followed by information on natural population increases and vital events by month.

Table 1 summarizes vital events that occurred from 1950-2007 and includes the mid-year BC populations. The BC population has shown a steady increase since 1950 so the columns indicating the rates are the most telling of indicators.

The rate of live births to residents increased steadily from 1950 to 1957 (as shown in Table 1). It levelled until 1960, and then dropped quite rapidly during the next ten years after which the decline moderated but generally continued until 2005. In 2006 and 2007, there was a slight increase in the rate of live births over the previous years. This has not occurred since 1988. The death rate, on the other hand, has declined from about ten per 1,000 population in 1950 to about seven per 1,000 in the mid 1980s and remained at about that level until 2007.

Marriage information pertains to all marriages solemnized in the province, not only those to residents. The marriage rate was about 10 marriages per 1,000 British Columbians in 1950 but declined to about seven per 1,000 in 1960, then rose again to almost the 1950 rate by 1970. Since then, the marriage rate has declined to about 5 marriages per 1,000 population in 2007.

Regarding stillbirths, readers should be aware that there was a change in definition which led to the apparent 'jump' in numbers and rates in 1963. That change, and another in 1986, is explained under Stillbirth in the *Glossary*. Other than the increase in 1963 and irregularities due to small numbers of stillbirths, rates generally declined until the early 1990s and have fluctuated around seven per 1,000 total births since then.

Table 2 and Figure 4 show the rate of natural population increase (NPI) in BC and Canada since 1950. Natural population growth is explained in the *Glossary*. Not counting migration into or out of BC, the population grew "naturally" by 12,412 or at the rate of 2.8 per 1,000 British Columbians in 2007.

BC's rate of NPI has been consistently below Canada's except for the first half of the 1980s. Both BC's and Canada's rates have gradually declined since the late 1950s.

Table 3 and Figure 5 show the number of live births, deaths, marriages, and stillbirths to residents according to the month in which they occurred. The number of marriages each month includes residents and non-residents. The percent columns show the monthly percent of all events to residents, except marriages which show the percent of all marriages. The table also includes the number of live births, deaths and stillbirths to non-residents.

There is continual speculation and anecdotal evidence that vital events tend to occur in particular months or seasons. The data presented in Table 3 and Figure 5 may not put an end to that speculation, but live births and deaths were pretty evenly distributed across the months and seasons in 2007. On the other hand, there was a clear preference to marry during the summer months. Although there were fluctuations in the number and percentage of stillbirths, due to the small number of events, no trend was apparent.

TABLE 1

LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS

BRITISH COLUMBIA, 1950–2007

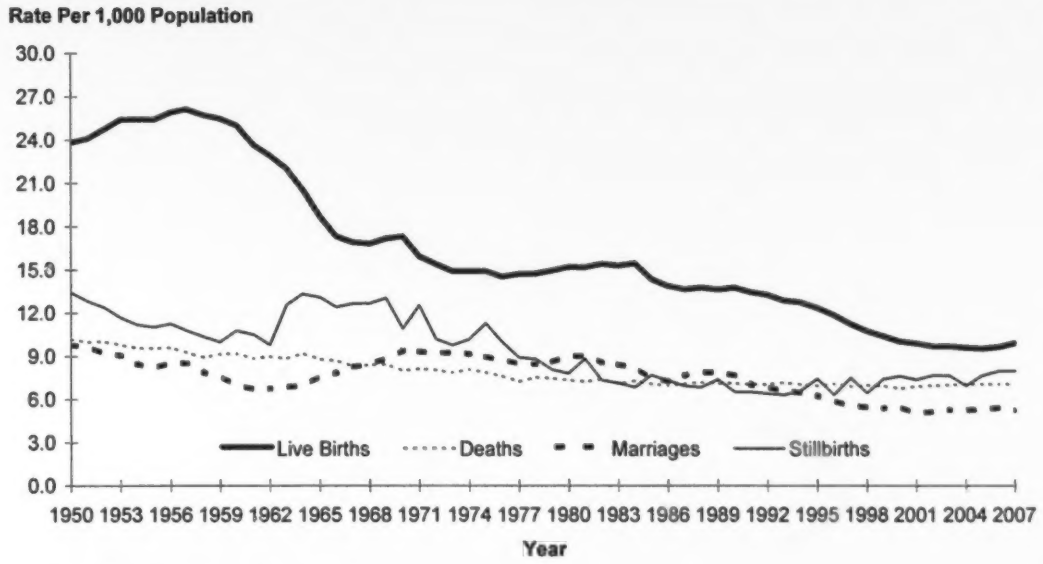
Year	Mid-year Population	Live Births		Deaths		Marriages		Stillbirths	
		Number	Rate	Number	Rate	Number	Rate	Number	Rate
1950	1,137,000	27,116	23.85	11,581	10.19	11,110	9.77	369	13.43
1951	1,165,210	28,077	24.10	11,638	9.99	11,272	9.67	365	12.83
1952	1,205,000	29,827	24.75	12,080	10.02	11,081	9.20	375	12.42
1953	1,248,000	31,746	25.44	12,218	9.79	11,298	9.05	375	11.67
1954	1,295,000	32,946	25.44	12,414	9.59	10,991	8.49	373	11.19
1955	1,342,000	34,138	25.44	12,816	9.55	11,011	8.20	381	11.04
1956	1,398,464	36,241	25.91	13,415	9.59	11,950	8.55	413	11.27
1957	1,482,000	38,744	26.14	13,711	9.25	12,620	8.52	422	10.77
1958	1,538,000	39,577	25.73	13,741	8.93	12,094	7.86	414	10.35
1959	1,567,000	39,971	25.51	14,336	9.15	11,910	7.60	404	10.01
1960	1,602,000	40,116	25.04	14,696	9.17	11,203	6.99	437	10.78
1961	1,629,100	38,591	23.69	14,403	8.84	10,935	6.71	410	10.51
1962	1,660,000	38,128	22.97	14,912	8.98	11,196	6.74	377	9.79
1963	1,699,000	37,478	22.06	15,029	8.85	11,677	6.87	476	12.54
1964	1,745,000	35,897	20.57	16,051	9.20	12,158	6.97	485	13.33
1965	1,797,000	33,669	18.74	15,784	8.78	13,639	7.59	447	13.10
1966	1,873,674	32,502	17.35	16,290	8.69	14,682	7.84	409	12.43
1967	1,945,000	32,899	16.91	16,170	8.31	16,026	8.24	422	12.66
1968	2,003,000	33,687	16.82	16,828	8.40	16,914	8.44	433	12.69
1969	2,060,000	35,383	17.18	17,377	8.44	18,284	8.88	468	13.05
1970	2,128,000	36,861	17.32	17,020	8.00	20,020	9.41	407	10.92
1971	2,184,620	34,852	15.95	17,783	8.14	20,389	9.33	442	12.52
1972	2,241,400	34,563	15.42	18,021	8.04	20,659	9.22	356	10.20
1973	2,302,400	34,352	14.92	18,095	7.86	21,303	9.25	339	9.77
1974	2,375,700	35,450	14.92	19,177	8.07	21,734	9.15	364	10.16
1975	2,433,200	36,281	14.91	19,151	7.87	21,824	8.97	414	11.28
1976	2,466,610	35,848	14.53	18,788	7.62	21,536	8.73	361	9.97
1977	2,493,800	36,691	14.71	18,021	7.23	21,156	8.48	330	8.91
1978	2,530,100	37,231	14.72	19,057	7.53	21,388	8.45	331	8.81
1979	2,571,200	38,432	14.95	19,204	7.47	22,087	8.59	313	8.08
1980	2,640,100	40,104	15.19	19,371	7.34	23,830	9.03	316	7.82
1981	2,744,470	41,679	15.19	19,857	7.24	24,694	9.00	371	8.82
1982	2,787,700	42,942	15.40	20,704	7.43	23,831	8.55	317	7.33
1983	2,813,800	43,047	15.30	19,895	7.07	23,692	8.42	310	7.15
1984	2,847,700	44,040	15.47	20,781	7.30	23,394	8.22	303	6.83
1985	2,990,000	42,989	14.38	21,131	7.07	22,270	7.45	333	7.69
1986	3,004,104	41,711	13.88	21,009	6.99	21,845	7.27	308	7.33
1987	3,050,160	41,611	13.64	21,618	7.09	23,417	7.68	291	6.94
1988	3,115,357	42,861	13.76	22,357	7.18	24,519	7.87	295	6.84
1989	3,197,880	43,587	13.63	22,786	7.13	25,181	7.87	324	7.38
1990	3,290,814	45,347	13.78	23,415	7.12	25,225	7.67	298	6.53
1991	3,373,464	45,345	13.44	23,820	7.06	23,667	7.02	298	6.53
1992	3,468,445	46,010	13.27	24,463	7.05	23,762	6.85	298	6.44
1993	3,567,406	45,928	12.87	25,603	7.18	23,479	6.58	292	6.32
1994	3,675,699	46,819	12.74	25,830	7.03	23,776	6.47	312	6.62
1995	3,777,004	46,683	12.36	26,225	6.94	23,636	6.26	350	7.44
1996	3,874,276	45,953	11.86	27,391	7.07	22,880	5.91	292	6.31
1997	3,948,544	44,392	11.24	27,263	6.90	21,883	5.54	335	7.49
1998	3,983,077	42,868	10.76	27,808	6.98	21,778	5.47	278	6.44
1999	4,011,342	41,740	10.41	27,888	6.95	21,629	5.39	313	7.44
2000	4,039,198	40,495	10.03	27,350	6.77	22,094	5.47	311	7.62
2001	4,078,447	40,385	9.90	28,237	6.92	20,573	5.04	301	7.40
2002	4,115,413	39,900	9.70	28,714	6.98	21,262	5.17	309	7.68
2003	4,155,370	40,306	9.70	29,155	7.02	21,986	5.29	311	7.66
2004	4,203,807	40,334	9.59	29,722	7.07	22,086	5.25	282	6.94
2005	4,260,246	40,658	9.54	30,092	7.06	22,639	5.31	314	7.66
2006	4,320,255	41,673	9.65	30,536	7.07	23,517	5.44	335	7.97
2007	4,380,256	43,517	9.93	31,105	7.10	22,961	5.24	350	7.98

Note: Rates shown for live births, deaths and marriages are crude rates per 1,000 population. Stillbirth rate is per 1,000 total births (live births plus stillbirths). The definition of a stillbirth was revised in 1963 and 1986 (see Glossary). Population information from BC Stats, Ministry of Labour and Citizens' Services. Above information includes late registrations and amendments. Gender unknown included. Non-residents are excluded from all data except marriages.

FIGURE 3

CRUDE RATES OF LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS

BRITISH COLUMBIA, 1950–2007



Note: Stillbirth rate per 1,000 total births

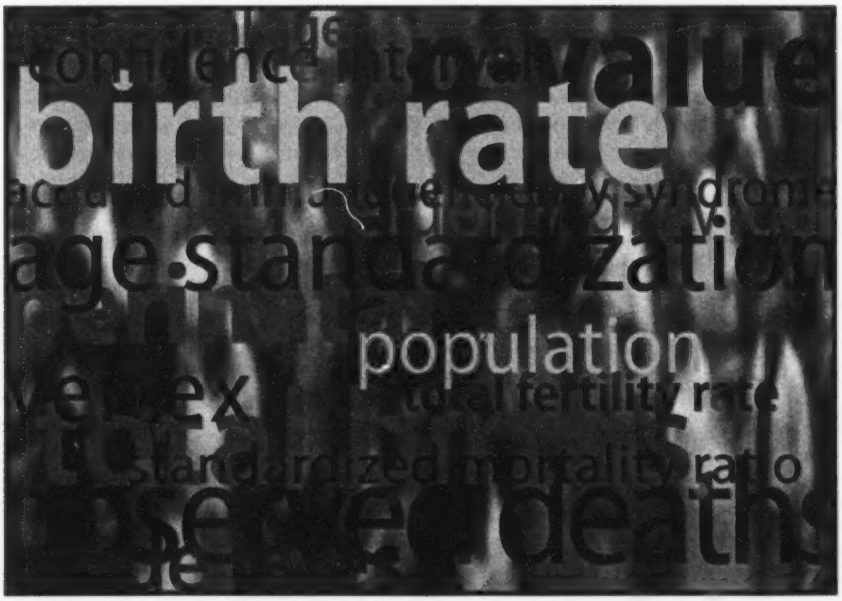


TABLE 2
NATURAL POPULATION INCREASES
BRITISH COLUMBIA AND CANADA, 1950–2007

Year	Rate B.C.	Rate Canada	Year	Rate B.C.	Rate Canada
1950	13.7	18.0	1979	7.5	8.4
1951	14.1	18.2	1980	7.9	8.3
1952	14.7	19.2	1981	8.0	8.0
1953	15.6	19.5	1982	8.0	7.9
1954	15.9	20.3	1983	8.2	7.8
1955	15.9	20.0	1984	8.2	7.8
1956	16.3	19.8	1985	7.3	7.5
1957	16.9	20.0	1986	6.9	7.2
1958	16.8	19.6	1987	6.6	7.0
1959	16.4	19.4	1988	6.6	7.0
1960	15.9	19.0	1989	6.5	7.4
1961	14.8	18.4	1990	6.7	7.7
1962	14.0	17.6	1991	6.4	7.4
1963	13.2	16.8	1992	6.2	7.1
1964	11.4	15.9	1993	5.7	6.4
1965	10.0	13.7	1994	5.7	6.1
1966	8.7	11.9	1995	5.4	5.7
1967	8.6	10.8	1996	4.8	5.2
1968	8.4	10.2	1997	4.3	4.4
1969	8.7	10.3	1998	3.8	4.1
1970	9.3	10.1	1999	3.5	3.8
1971	7.8	9.5	2000	3.3	3.9
1972	7.4	8.5	2001	3.0	3.5
1973	7.1	8.1	2002	2.7	3.4
1974	6.8	8.0	2003	2.7	3.4
1975	7.0	8.5	2004	2.5	3.4
1976	6.9	8.4	2005	2.5	3.4
1977	7.5	8.4	2006	2.6	3.5
1978	7.2	8.1	2007	2.8	3.5

Note: Rates shown are rates of natural population increase per 1,000 population. Canadian rates from Statistics Canada. Non-residents are excluded. Canadian rates for 2000 to 2007 are from Statistics British Columbia.

FIGURE 4
TRENDS OF NATURAL POPULATION GROWTH
BRITISH COLUMBIA AND CANADA, 1950–2007

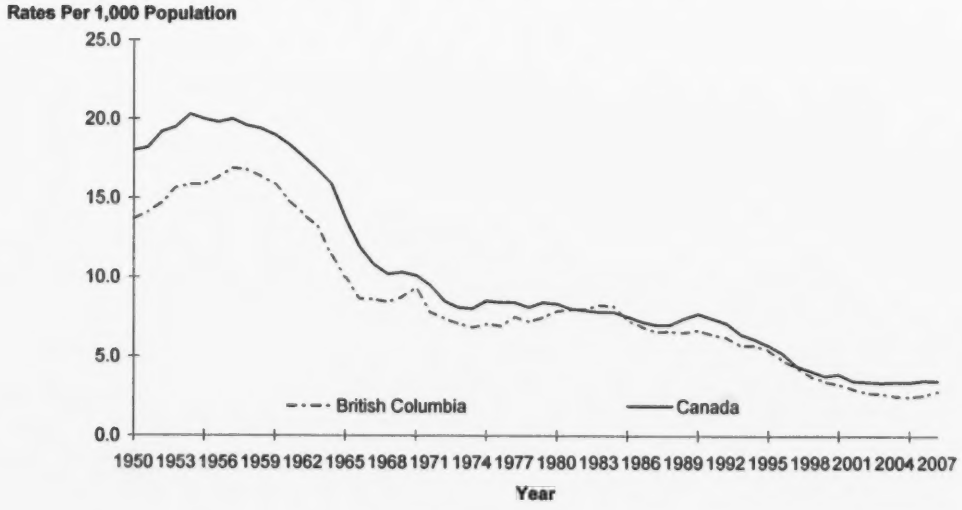


TABLE 3

LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS BY MONTH

BRITISH COLUMBIA, 2007

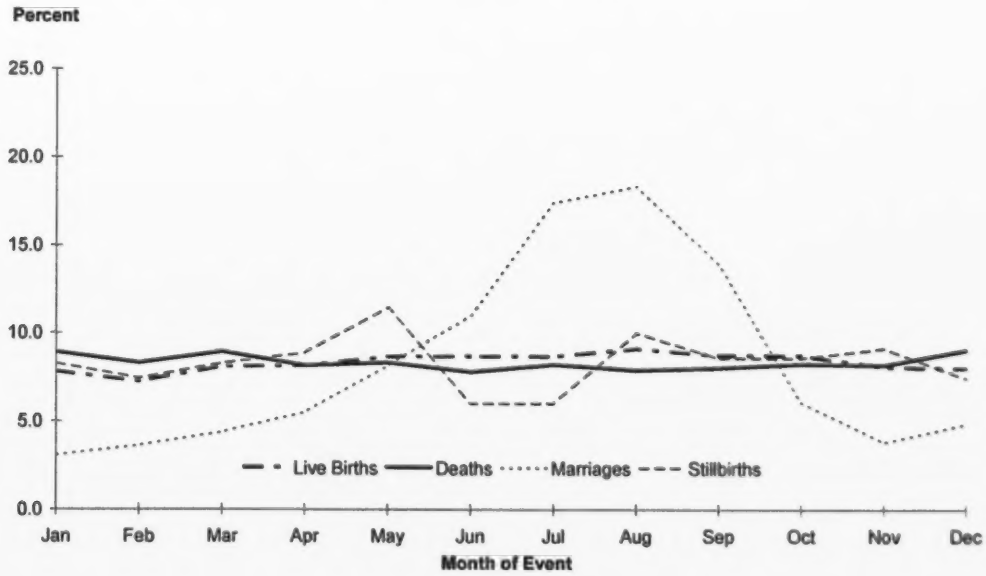
Month	Live Births		Deaths		Marriages		Stillbirths	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
January	3,415	7.8	2,779	8.9	706	3.1	29	8.3
February	3,151	7.2	2,580	8.3	833	3.6	26	7.4
March	3,525	8.1	2,780	8.9	1,005	4.4	29	8.3
April	3,537	8.1	2,533	8.1	1,259	5.5	31	8.9
May	3,762	8.6	2,585	8.3	1,868	8.1	40	11.4
June	3,782	8.7	2,423	7.8	2,525	11.0	21	6.0
July	3,769	8.7	2,551	8.2	3,989	17.4	21	6.0
August	3,968	9.1	2,454	7.9	4,209	18.3	35	10.0
September	3,799	8.7	2,497	8.0	3,183	13.9	30	8.6
October	3,798	8.7	2,564	8.2	1,397	6.1	30	8.6
November	3,521	8.1	2,549	8.2	871	3.8	32	9.1
December	3,490	8.0	2,810	9.0	1,116	4.9	26	7.4
Residents*	43,517	100.0	31,105	100.0	22,961	100.0	350	100.0
Non-residents	188		271		*		2	
TOTAL	43,705		31,376		22,961		352	

Note: Total percentage may not add up to 100 due to rounding.
*Marriage counts by month are based on event place and include non-residents.

FIGURE 5

LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS BY MONTH

BRITISH COLUMBIA, 2007



Fertility and Live Birth Trends

The Total Fertility Rate (TFR) in Table 4 is the number of births 1,000 women can expect during their child bearing years, that is, from 15 to 44 years of age. It is described more fully in the *Glossary* and an example of the calculation method is shown in the *Methodology* section.

The fertility rate in BC today is about half the 1950s rate. Shortly after World War II, fertility began to increase, commonly referred to as the post war baby boom. As shown in Table 4, fertility rates increased from 1950 to 1960 after which there was a sharp decline until the late 1970s. Since then the declining trend has continued more slowly, with some fluctuations, until 2007. Figure 6 shows that slow decline over the last two decades. Fertility by Local Health Areas and among teenagers is analysed in Table 10 and Figure 29 respectively.

In addition to trends in Total Fertility Rates, this section discusses trends in maternal age, multiple births, low birth weight, and cesarean section deliveries.

Figure 7 shows annual percentages of live births to women in three age groups for the years 1986-2007. The oldest group (aged 35 years or more) is gradually increasing its percentage compared to the two younger groups (less than 20 years and 20 to 34 years old). The average age at which women are bearing children is increasing, but still about three quarters of live births are to women in the 20-34 years age group. Maternal age is related to other important birth characteristics and is a component of several tables in the birth related statistics section of this report.

As illustrated by Figure 8, the percentage of births that are multiple births has increased substantially between 1986 and 2007. Multiple birth infants have a higher risk of being preterm, having low birth weight, suffering perinatal death or illness than singletons[1]. Multiple birth infants accounted for 1.9 percent of all live births in 1986 and 3.1 percent in 2007. This was a statistically significant increase at the 95 percent level.

Figures 9 and 10 both illustrate the occurrence of Low Birth Weight (LBW) live births (those births with a birth weight of less than 2,500 grams) over the period 1986-2007. Figure 9 shows both the counts of such births and the rates per 1,000 live births for all mothers. Figure 10 shows the rate per 1,000 live births for mothers 35 years and older. While LBW rates increased gradually from 46.9 in 1986 to 57.3 per 1,000 live births in 2007. The rate in older mothers has increased more sharply from 45.2 in 1986 to 70.2 per 1,000 live births in 2007. The trend in each of these graphs is statistically significant at the 95 percent level.

Three relevant indicators are presented in Figures 11, 12, and 13. The upward trend in the cesarean section rates since 1986 (Figure 11) is statistically significant at the 95 percent level, and the increase appears greater in the last few years. Cesarean sections by Health Service Delivery Area (HSDA) varied considerably in 2007 (Figure 12) from a low of 24.8 percent of live births to residents of Kootenay Boundary to a high of 36.3 percent of live births to South Vancouver Island residents.

An important consideration regarding cesarean sections is the age of the mother. There were clear differences between age groups (Figure 13), with cesarean rates highest for mothers aged 35 or older and lowest for teen mothers. However, all age groups showed upward trends that were statistically significant at the 95 percent level.

Cesarean deliveries are shown in relation to other modes of delivery in Table 11 and by Local Health Area (LHA) in Table 12 and Figure 30.

[1]http://www.multiplebirthscanada.org/english/documents/low_birth_bro_final2005.pdf.

TABLE 4
TOTAL FERTILITY RATES
BRITISH COLUMBIA, 1950–2007

Year	Total Fertility Rate	Live Births	Year	Total Fertility Rate	Live Births
1950	3,074	27,116	1979	1,721	38,432
1951	3,201	28,077	1980	1,716	40,104
1952	3,327	29,827	1981	1,718	41,679
1953	3,542	31,746	1982	1,749	42,942
1954	3,656	32,946	1983	1,751	43,047
1955	3,748	34,138	1984	1,781	44,040
1956	3,875	36,241	1985	1,642	42,989
1957	3,921	38,744	1986	1,603	41,711
1958	3,900	39,577	1987	1,607	41,611
1959	3,958	39,971	1988	1,640	42,861
1960	3,949	40,116	1989	1,644	43,587
1961	3,785	38,591	1990	1,682	45,347
1962	3,709	38,128	1991	1,665	45,345
1963	3,564	37,478	1992	1,660	46,010
1964	3,284	35,897	1993	1,636	45,928
1965	2,710	33,669	1994	1,641	46,819
1966	2,442	32,502	1995	1,608	46,683
1967	2,307	32,899	1996	1,545	45,953
1968	2,228	33,687	1997	1,480	44,392
1969	2,223	35,383	1998	1,446	42,868
1970	2,185	36,861	1999	1,420	41,740
1971	1,994	34,852	2000	1,388	40,495
1972	1,890	34,563	2001	1,385	40,385
1973	1,751	34,352	2002	1,368	39,900
1974	1,735	35,450	2003	1,383	40,306
1975	1,682	36,281	2004	1,378	40,334
1976	1,618	35,848	2005	1,379	40,658
1977	1,636	36,691	2006	1,401	41,673
1978	1,620	37,231	2007	1,448	43,517

Note: Total Fertility Rate – Sum of age-specific fertility rates multiplied by the number of years in each age group (see Glossary for definition). Rates per 1,000 women age 15 to 44. Non-residents are excluded.

FIGURE 6
TOTAL FERTILITY RATES AND NUMBER OF LIVE BIRTHS
BRITISH COLUMBIA, 1986–2007

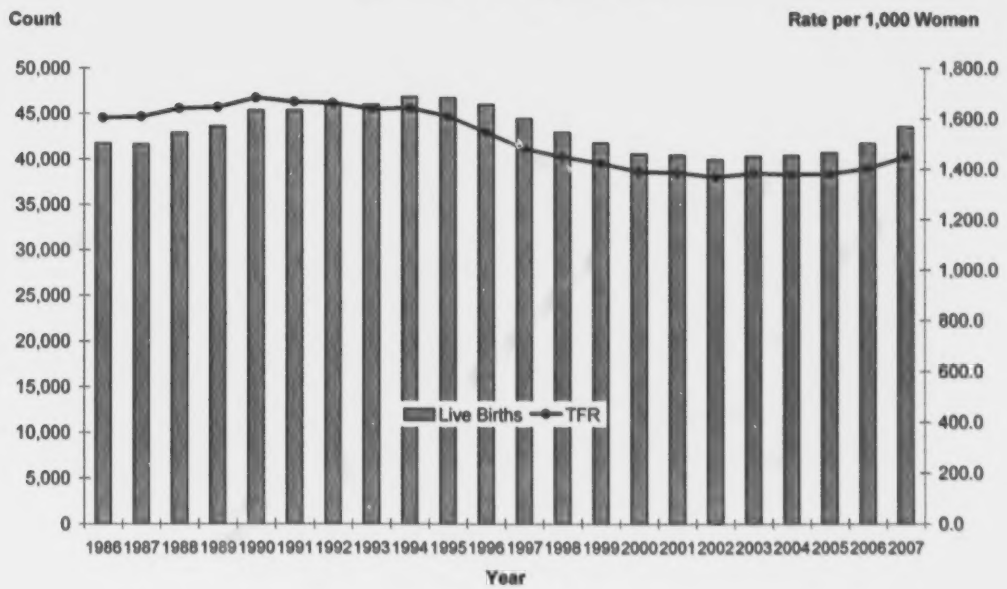


FIGURE 7

LIVE BIRTHS BY AGE OF MOTHER

BRITISH COLUMBIA, 1986–2007

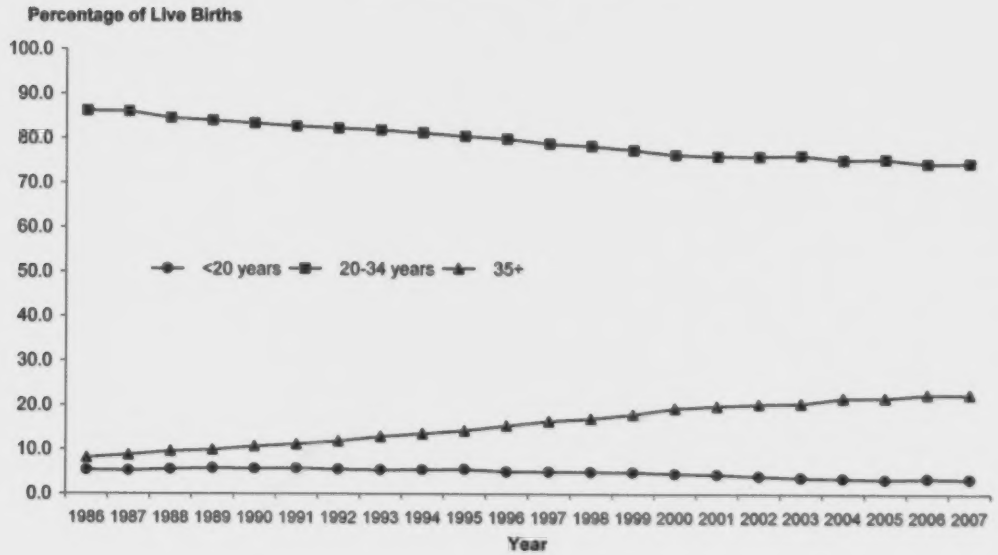


FIGURE 8

MULTIPLE BIRTHS AS A PERCENTAGE OF LIVE BIRTHS

BRITISH COLUMBIA, 1986–2007

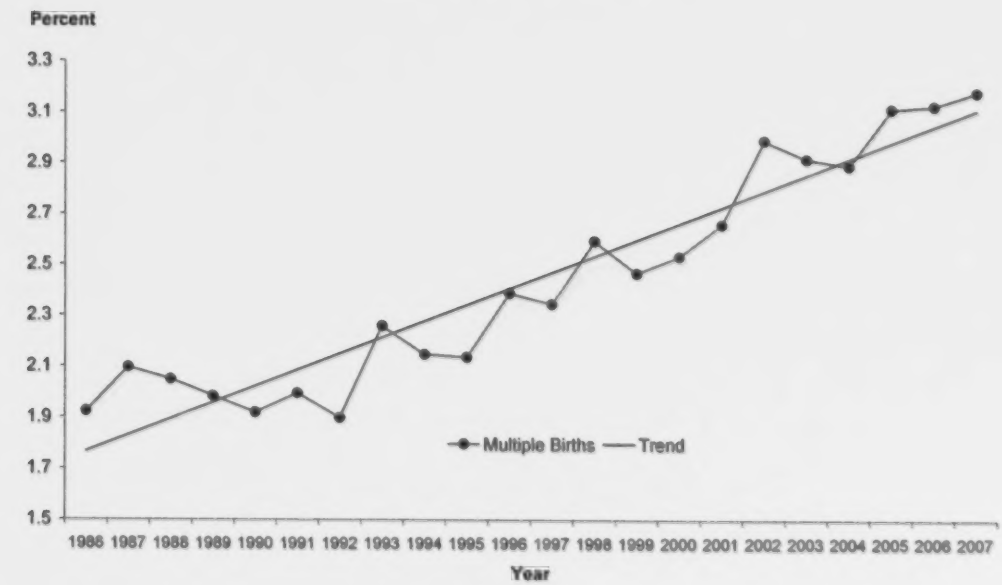


FIGURE 9
LOW BIRTH WEIGHT LIVE BIRTHS
BRITISH COLUMBIA, 1986–2007

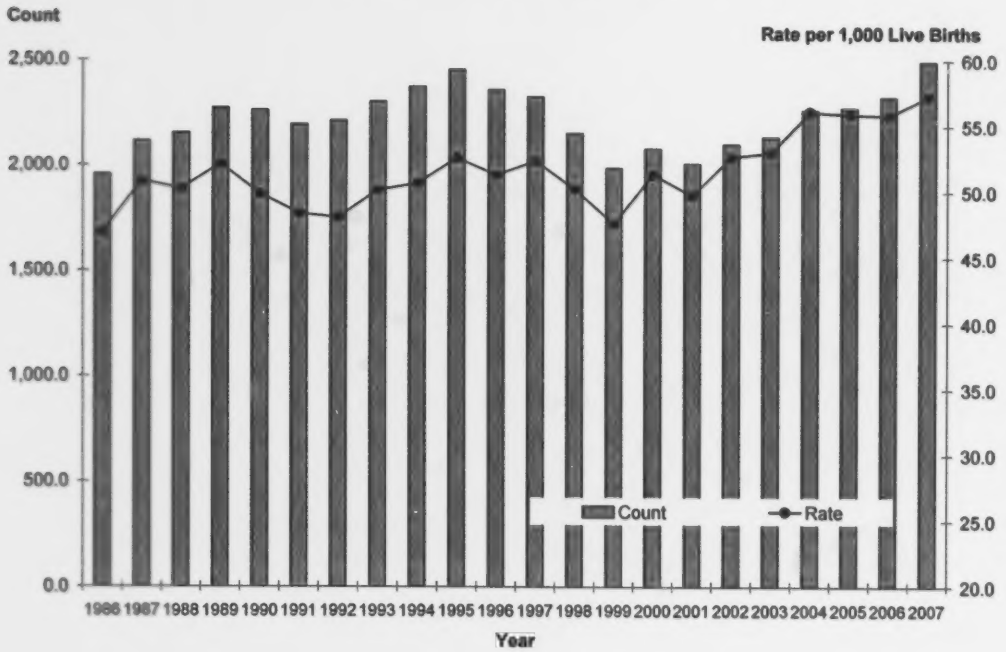


FIGURE 10
LOW BIRTH WEIGHT LIVE BIRTHS FOR MOTHERS AGED 35+
BRITISH COLUMBIA, 1986–2007

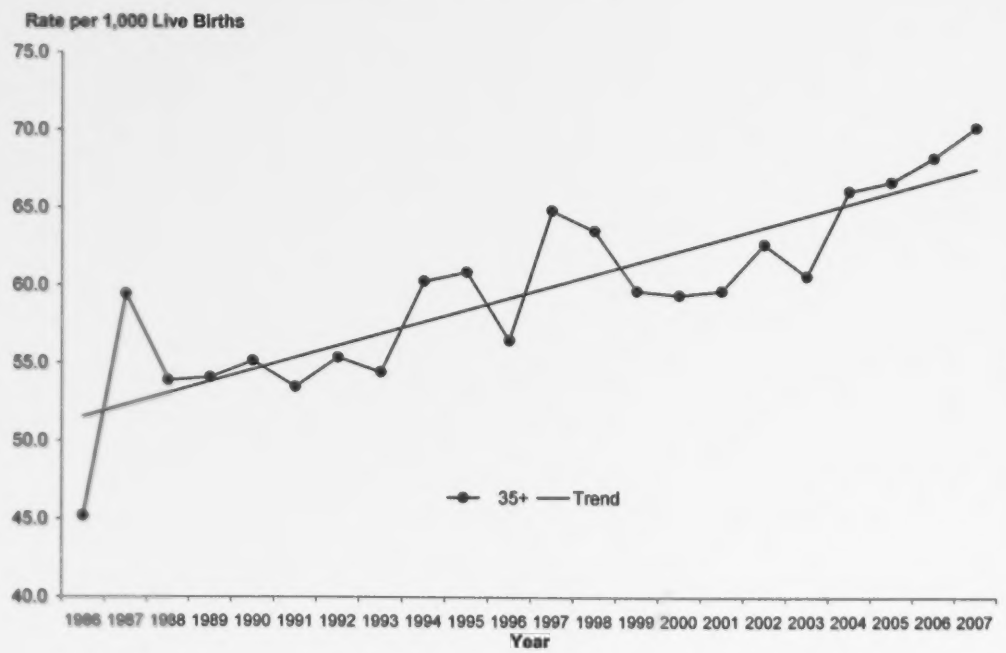


FIGURE 11
CESAREAN SECTIONS
BRITISH COLUMBIA, 1986–2007

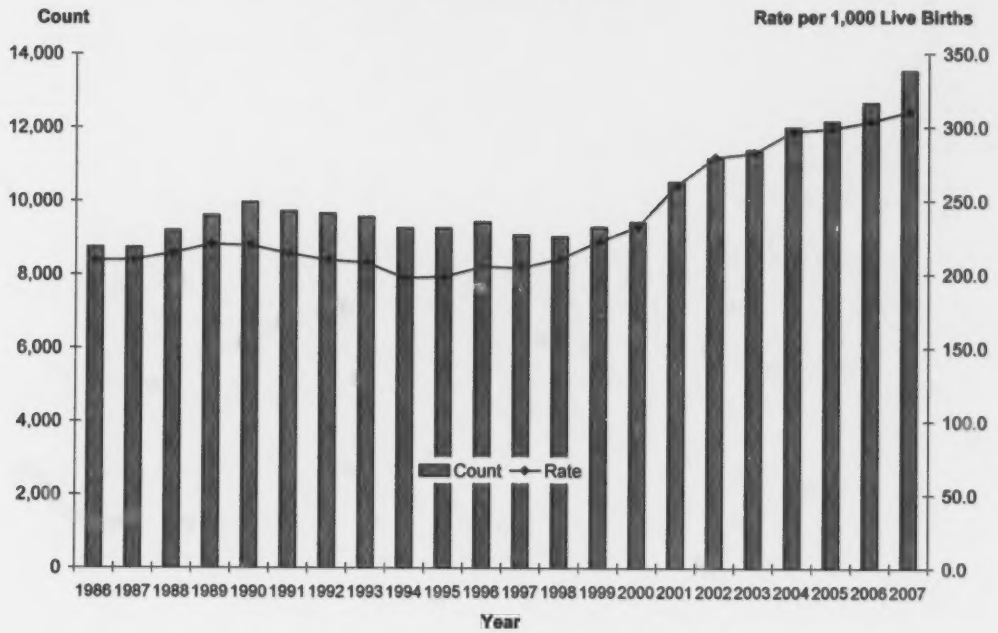
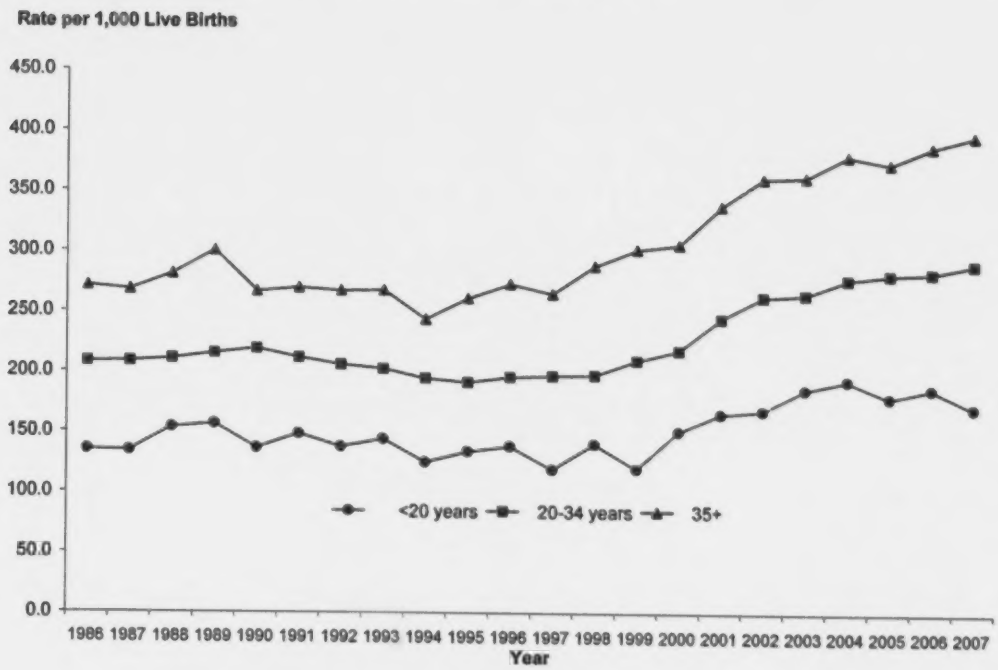


FIGURE 12
CESAREAN SECTIONS BY HEALTH SERVICE DELIVERY AREA
BRITISH COLUMBIA, 2007

Health Service Delivery Area
South Vancouver Island (41) 36.3
Thompson Cariboo Shuswap (14) 34.2
Richmond (31) 32.5
Fraser North (22) 32.4
Fraser South (23) 32.1
North Shore/Coast Garibaldi (33) 31.9
Vancouver (32) 30.6
North Vancouver Island (43) 29.2
Central Vancouver Island (42) 29.2
Okanagan (13) 29.2
East Kootenay (11) 29.1
Northern Interior (52) 28.5
Northeast (53) 28.3
Fraser East (21) 27.4
Northwest (51) 27.2
Kootenay Boundary (12) 24.8
20 22 24 26 28 30 32 34 36
Percent of Live Births

FIGURE 13
CESAREAN SECTIONS BY AGE OF MOTHER
BRITISH COLUMBIA, 1986–2007



Infant Mortality Trends

Table 5 shows the number of infants in BC who died before their first birthday in the years 1965-2007. Also shown are the rates at which these deaths occurred per 1,000 live births and similar rates for Canada. The infant death rate in Canada and BC decreased to around one fifth of the 1965 level by 2007. When these deaths are broken into three ranges according to the infant's age when the death occurred, it is clear that well over half of all infant deaths occur in the first six days of life. The *Glossary* defines the various divisions of infant deaths according to the infant's age.

For most of time period covered by Table 5, there are comparable data at the Canadian level. Until 1991, Canada's and BC's infant mortality rates were similar. Since then BC's rate of infant mortality has been lower than the overall Canadian rate.

Figure 14 clearly illustrates the downward trends in both the number and the rate of infant deaths over the past 20 years. Both trends are statistically significant at the 95 percent level.

Figure 15 and 16 show that historically infant mortality rates have been relatively high among teenage mothers, although only a small proportion (9.9 percent) of total infant deaths in 2007 were babies born to these young women. A downward trend in infant mortality rates in all age groups is seen in Figure 15. Each of these trends is statistically significant at the 95 percent level.

More information about infant mortality can be seen in the infant mortality section of death related statistics in this report.

FIGURE 14
INFANT MORTALITY
BRITISH COLUMBIA, 1986–2007

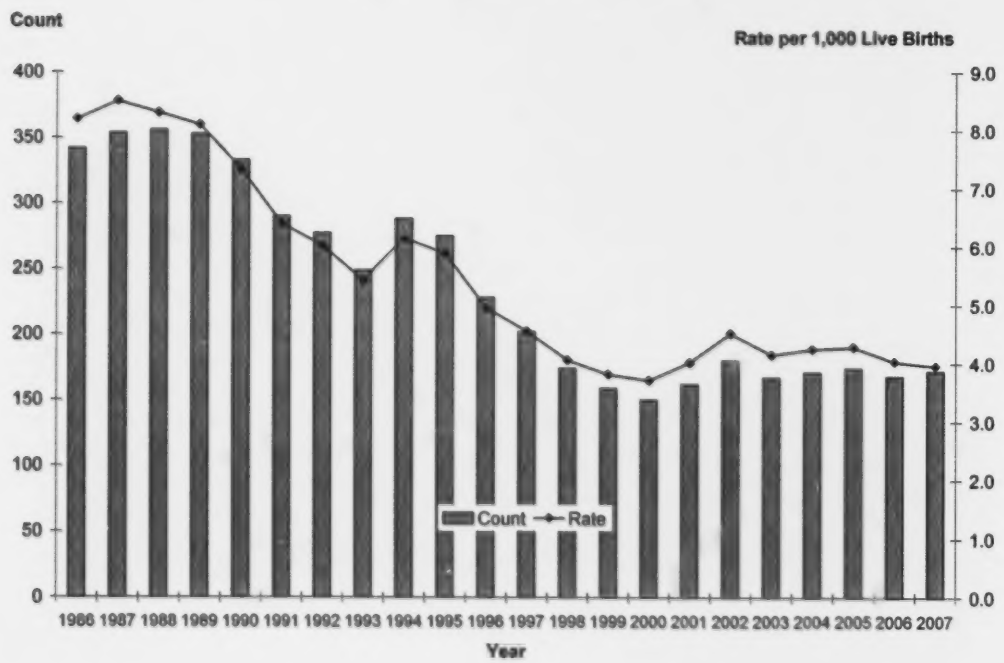


TABLE 5
INFANT MORTALITY
BRITISH COLUMBIA AND CANADA, 1965–2007

Year	British Columbia Age at Death (in Days)									Canada
	0–6 Days		0–27 Days		28–364 Days		N.S.	Total		
	Number	Rate	Number	Rate	Number	Rate		Number	Rate	Rate
1965	415	12.33	453	13.45	227	6.74	3	683	20.29	24.0
1966	435	13.38	494	15.20	263	8.09	4	761	23.41	23.1
1967	429	13.04	470	14.29	218	6.63	1	689	20.94	22.0
1968	375	11.13	438	13.00	214	6.35	4	656	19.47	21.0
1969	329	9.30	374	10.57	199	5.62	-	573	16.19	19.0
1970	369	10.01	416	11.29	193	5.24	2	611	16.58	19.0
1971	409	11.74	450	12.91	185	5.31	-	635	18.22	17.5
1972	322	9.32	373	10.79	195	5.64	1	569	16.46	17.0
1973	317	9.23	363	10.57	185	5.39	3	551	16.04	16.0
1974	310	8.74	348	9.82	196	5.53	2	546	15.40	15.0
1975	278	7.66	321	8.85	169	4.66	1	491	13.53	14.3
1976	292	8.15	324	9.04	152	4.24	2	478	13.33	13.5
1977	246	6.70	276	7.52	200	5.45	-	476	12.97	12.4
1978	245	6.58	286	7.68	178	4.78	-	464	12.46	12.0
1979	196	5.10	239	6.22	167	4.35	-	406	10.56	10.9
1980	188	4.69	235	5.86	186	4.64	-	421	10.50	10.4
1981	232	5.57	259	6.21	140	3.36	3	402	9.65	9.6
1982	217	5.05	251	5.85	150	3.49	-	401	9.34	9.1
1983	193	4.48	212	4.92	145	3.37	2	359	8.34	8.5
1984	184	4.18	205	4.65	150	3.41	1	356	8.08	8.1
1985	180	4.19	198	4.61	133	3.09	-	331	7.70	8.0
1986	164	3.93	195	4.68	147	3.52	-	342	8.20	7.9
1987	158	3.80	194	4.66	160	3.85	-	354	8.51	7.3
1988	191	4.46	220	5.13	136	3.17	-	356	8.31	7.2
1989	186	4.27	215	4.93	138	3.17	-	353	8.10	7.3
1990	183	4.04	221	4.87	112	2.47	-	333	7.34	6.8
1991	140	3.09	164	3.62	126	2.78	-	290	6.40	6.4
1992	153	3.33	173	3.76	104	2.26	-	277	6.02	6.1
1993	121	2.63	139	3.03	110	2.40	-	249	5.42	6.3
1994	175	3.74	198	4.23	90	1.92	-	288	6.15	6.3
1995	158	3.38	181	3.88	94	2.01	-	275	5.89	6.1
1996	133	2.89	160	3.48	68	1.48	-	228	4.96	5.6
1997	125	2.82	146	3.29	56	1.26	-	202	4.55	5.5
1998	94	2.19	114	2.66	60	1.40	-	174	4.06	5.3
1999	87	2.08	108	2.59	51	1.22	-	159	3.81	5.3
2000	84	2.07	105	2.59	45	1.11	-	150	3.70	5.3
2001	103	2.55	126	3.12	36	0.89	-	162	4.01	5.2
2002	98	2.46	126	3.16	54	1.35	-	180	4.51	5.4
2003	104	2.58	120	2.98	47	1.17	-	167	4.14	5.3
2004	108	2.68	122	3.02	49	1.21	-	171	4.24	5.3
2005	104	2.56	124	3.05	50	1.23	-	174	4.28	5.4
2006	83	1.99	118	2.83	50	1.20	-	168	4.03	*
2007	99	2.27	115	2.64	57	1.31	-	172	3.95	*

Note: Rates per 1,000 live births in the specified year.
N.S. – Not stated.
Above information includes late registrations and amendments.
Canadian rates from Statistics Canada.
*Rates were not available.
Non-residents are excluded.

FIGURE 15
INFANT MORTALITY BY AGE OF MOTHER
BRITISH COLUMBIA, 1986–2007

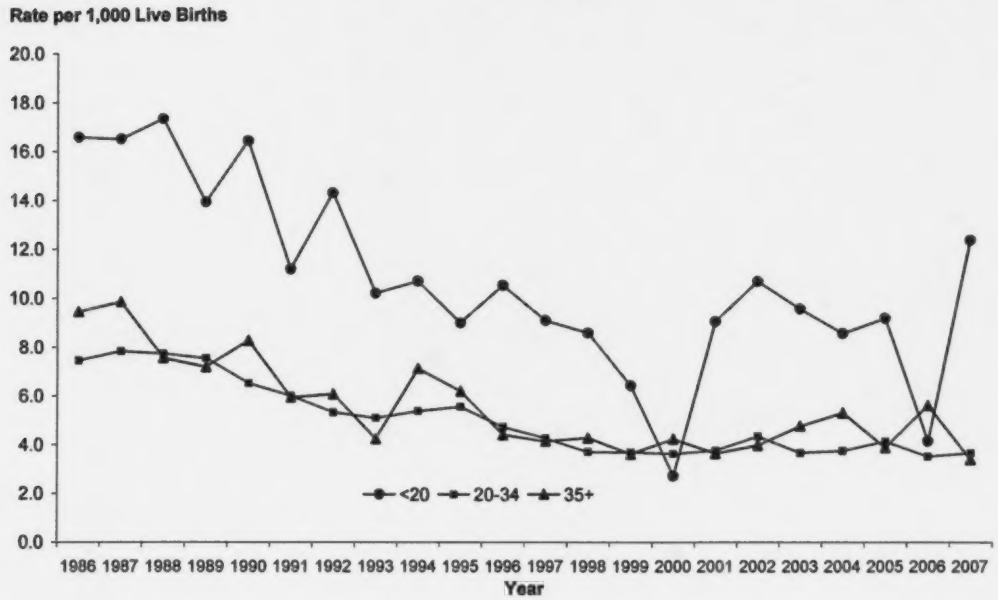
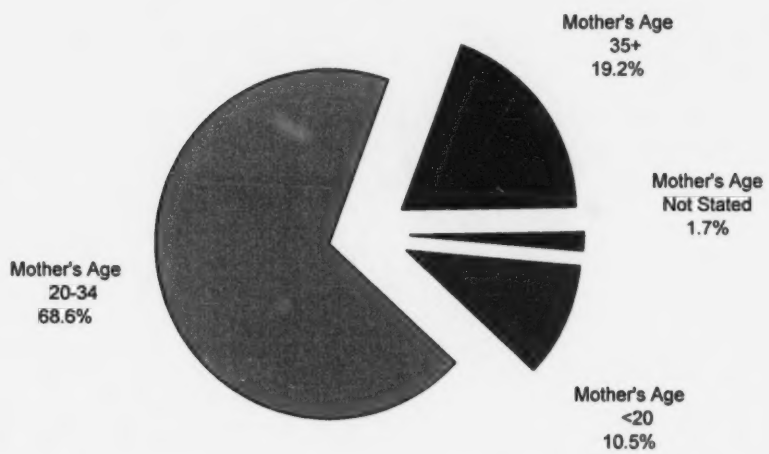


FIGURE 16
PERCENTAGE OF INFANT MORTALITY BY AGE OF MOTHER
BRITISH COLUMBIA, 2007



Death Trends

This section begins with an examination of counts and rates for all causes of death since 1986. This is followed by information on the average age at death, and cause of death trends for malignant neoplasms (cancer), endocrine, nutritional and metabolic diseases, nervous system diseases, cardiovascular diseases, cerebrovascular diseases, and motor vehicle accidents.

Note that all causes are based on the Underlying Cause of Death (UCOD), which is explained in the *Glossary*. While other causes may have contributed to the death, the underlying cause is defined as the condition or injury that initiated the train of events leading directly to death.

While Figure 17 shows an increase in the absolute number of deaths from 1986 to 2007, the standardized rate has been steadily declining. The provincial Age-Standardized Mortality Rate (ASMR) has been on a downward trend since 1986. The trend is not only statistically significant at the 95 percent level, but reached a historic low in 2007.

The rates are quoted per 10,000 population and have been age-standardized to the 1991 Canada census population distribution. See the *Glossary* for an explanation of ASMR and the *Methodology* section for an example of the calculation method.

Figure 18 shows that the average age at death among British Columbians has reached an all time high in 2007 at 74.0 years. The trend indicates an increase over the 1986 to 2007 time period, and this trend is statistically significant at the 95 percent level. It should be noted that average age at death is the arithmetic average of the ages at which people died and is not equivalent to Life Expectancy which is explained in the *Glossary*.

Figures 19 through 27 refer to selected major causes of death categories. Figures 19, 20, and 21 illustrate trends in cancer death and rates. The death rates are expressed as ASMRs.

Figure 19 shows that in the years 1986 to 2007, while the number of deaths due to all types of cancer (malignant neoplasms, ICD-10 codes C00-C97) steadily climbed, the ASMR has fallen. Thus, while cancer death incidence climbed, the size of the British Columbian population climbed at an even faster pace.

Figure 20 is a similar graph showing incidence and death rates due to lung cancer (malignant neoplasms of trachea and lung, ICD-10 codes C33-C34). While the numbers of lung cancer deaths in BC have increased since 1986, the size of the British Columbian population has climbed at an even faster rate, resulting in falling rates of lung cancer deaths.

Figure 21 provides further detail by gender for the lung cancer information shown in Figure 20. The falling trend in lung cancer deaths overall is being driven by the strong decline in lung cancer deaths among men, as there is a gradually increasing trend in the rate of lung cancer deaths among women. The declining trend in lung cancer deaths among men and the increasing trend in lung cancer deaths in women are both statistically significant at the 95 percent level. Deaths due to cancer are shown in the context of other causes of death in tables 21, 22, and 23 in the death-related statistics section of this report.

Deaths due to endocrine, nutritional and metabolic diseases in Figure 22 (ICD-10 codes E00-E89) include diseases such as diabetes and cystic fibrosis. A comprehensive list of diseases in this category is provided in *Appendix 2 - Detailed Cause of Death by Age and Gender*. The death rates and counts for these conditions increased during the period from 2000 to 2005 with a slight decline in 2006 and 2007.

Diabetes mellitus mortality in 2007, as shown in Figure 23, is about three times that of 1986.

Deaths due to diseases of the nervous system are shown in Figure 24 and include causes such as Alzheimer's disease, Parkinson's disease, and multiple sclerosis – a comprehensive list of diseases in this category appears in Appendix 2 under ICD-10 codes G00-G99. The number and rate of these deaths increased between 1986 and 2001. From 2001 to 2005 the number levelled off and the rate declined followed by a slight increase for both the number and rate in 2006 and 2007. The increasing trend from 1986 to 2007 was statistically significant at the 95 percent level.

Figure 25 shows numbers of cardiovascular disease deaths (ICD-10 codes I00-I51) and death rates per 10,000 standard population from 1986 to 2007. While the incidence numbers rose from 1986 to 1996 and then generally declined, the death rate has been consistently falling since 1986. This declining trend is statistically significant at the 95 percent level. See Tables 22 and 23 to compare cardiovascular disease deaths in the context of other causes of death.

Cerebrovascular diseases shown in Figure 26 include ICD-10 codes I60-I69. While the number of people dying from these diseases increased, the standardized rate gradually decreased between 1986 and 2007. This decreasing ASMR trend is statistically significant at the 95 percent level.

In Figure 27 the incidence and death rates for motor vehicle accidents over the period 1986 to 2007 declined. The downward ASMR trend is statistically significant at the 95 percent level. Although motor vehicle deaths have, on average since 2000, accounted for about 1.4 percent of all deaths, a substantial share of deaths due to motor vehicle accidents are among young British Columbians and as such they remain a concern. See Tables 34 and 35.

FIGURE 17

DEATHS AND DEATH RATES, ALL CAUSES OF DEATH

BRITISH COLUMBIA, 1986–2007

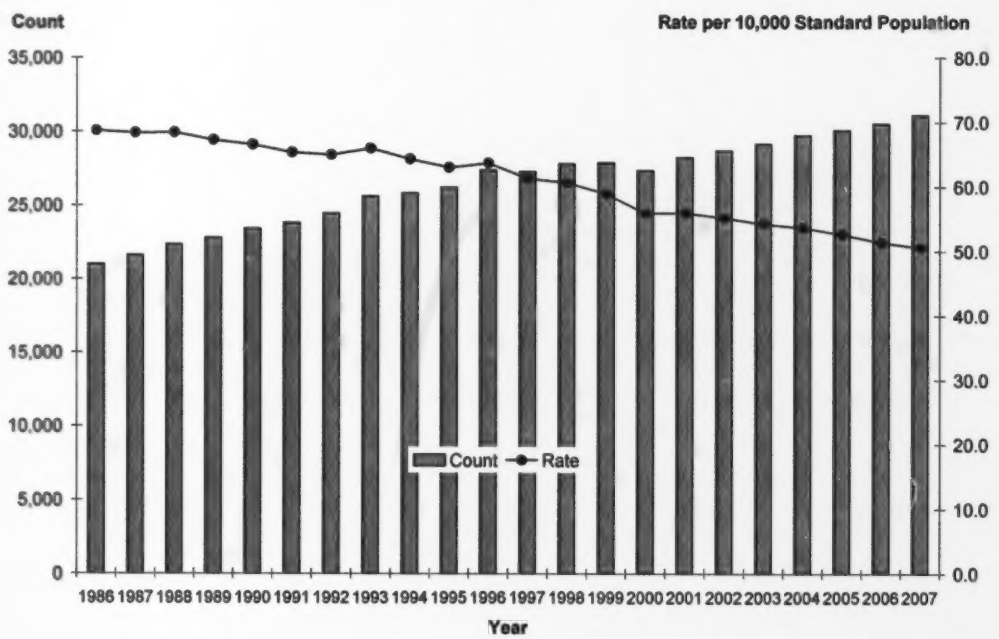
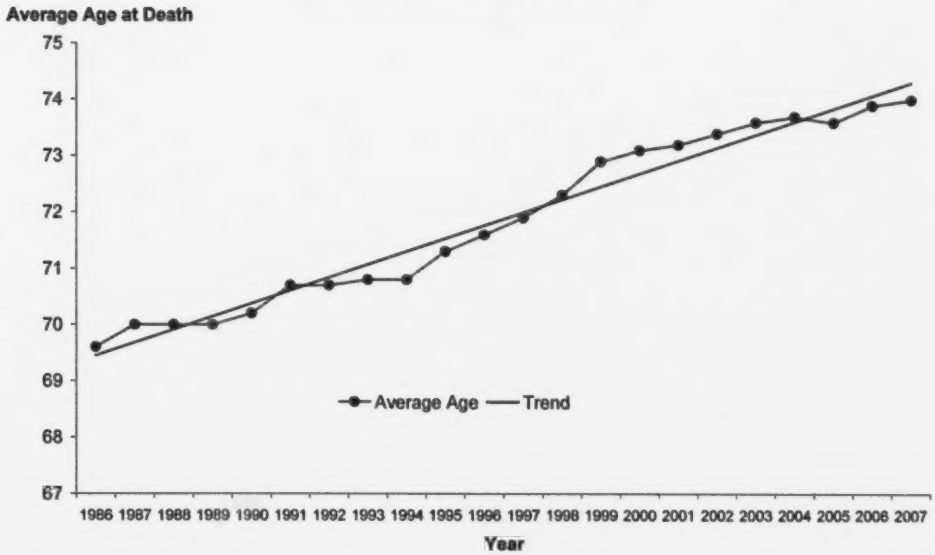


FIGURE 18
AVERAGE AGE AT DEATH
BRITISH COLUMBIA, 1986–2007



Based on 5 year age groups to 85+

FIGURE 19
DEATHS AND DEATH RATES, MALIGNANT NEOPLASMS (CANCER)
BRITISH COLUMBIA, 1986–2007

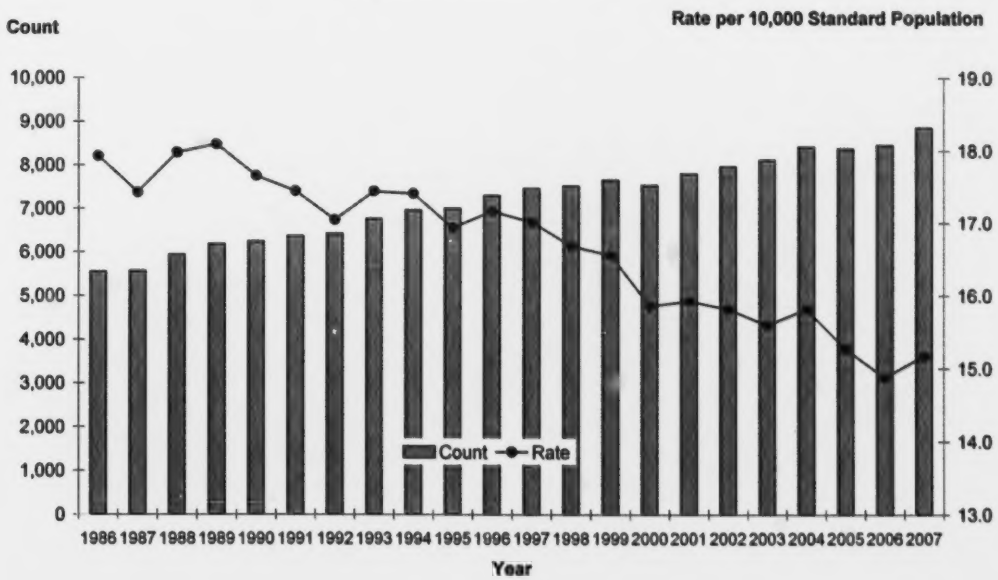


FIGURE 20

DEATHS AND DEATH RATES, MALIGNANT NEOPLASM OF LUNG

BRITISH COLUMBIA, 1986-2007

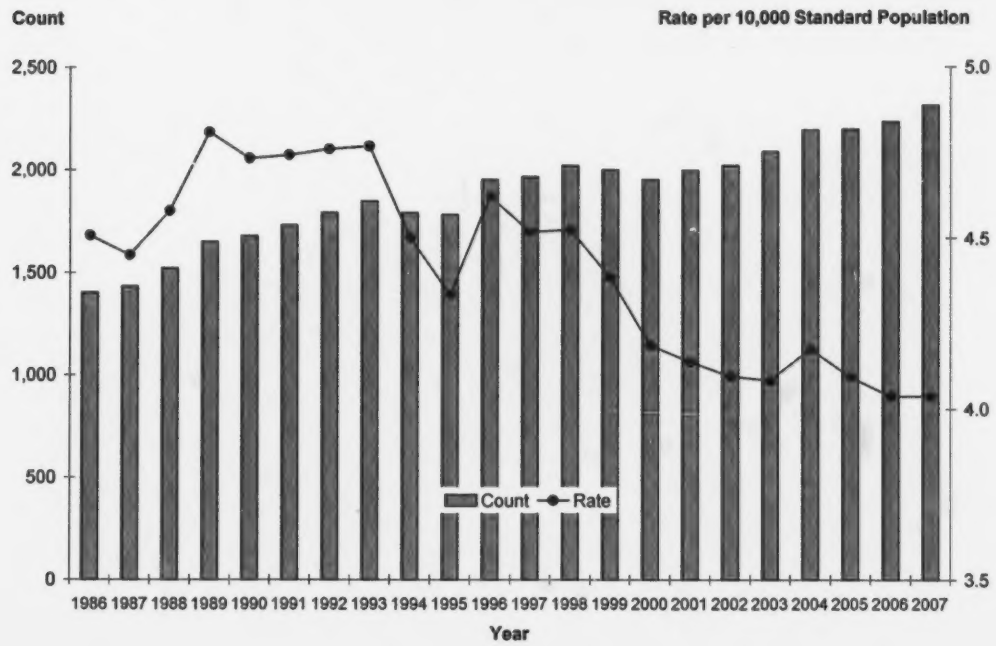


FIGURE 21

DEATH RATES BY GENDER, MALIGNANT NEOPLASM OF LUNG

BRITISH COLUMBIA, 1986-2007

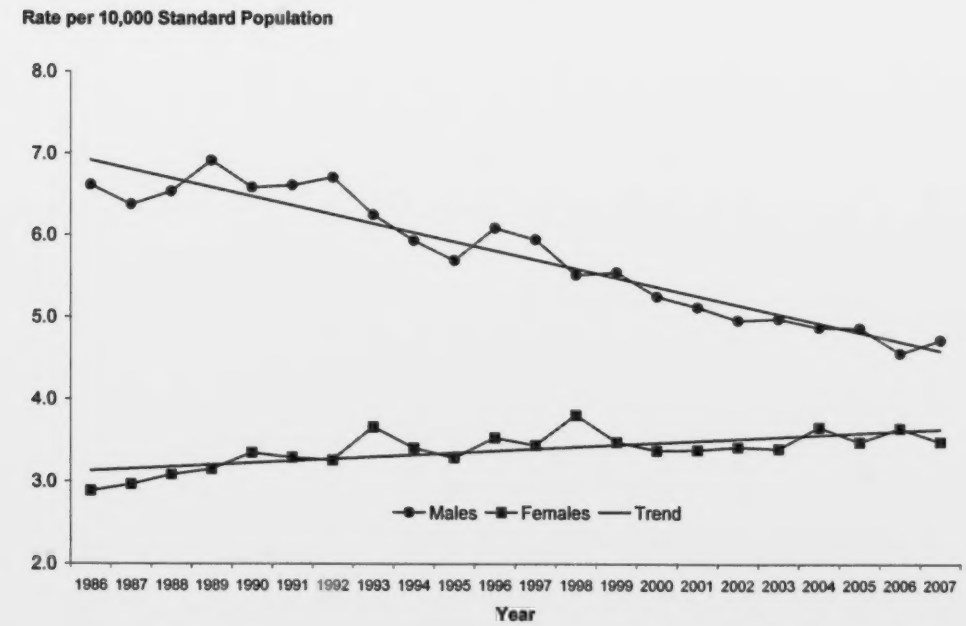


FIGURE 22

DEATHS AND DEATH RATES, ENDOCRINE, NUTRITIONAL AND METABOLIC DISEASES

BRITISH COLUMBIA, 1986-2007

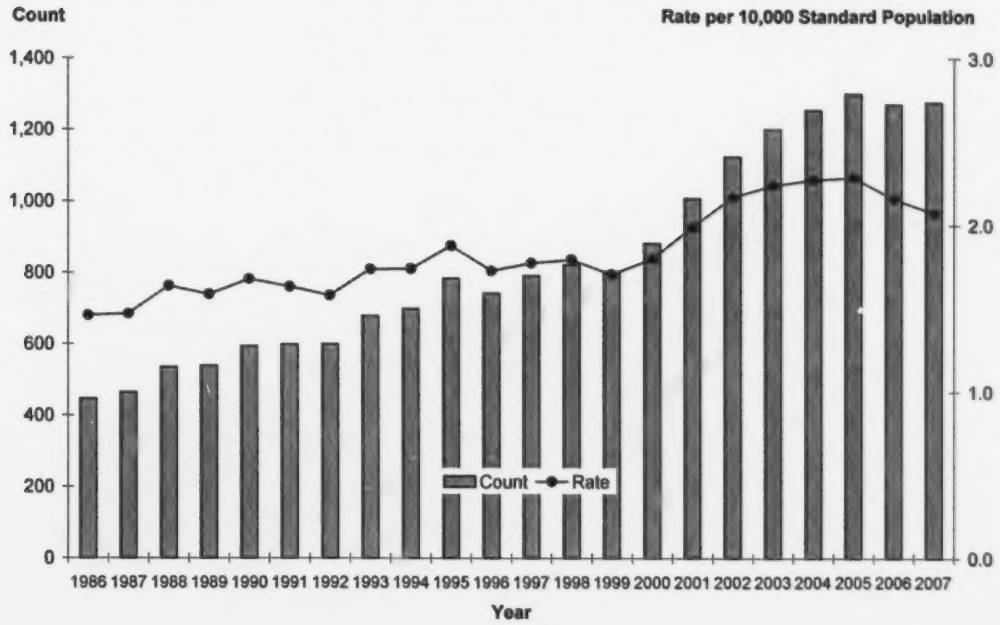


FIGURE 23

DEATHS AND DEATH RATES, DIABETES MELLITUS

BRITISH COLUMBIA, 1986–2007

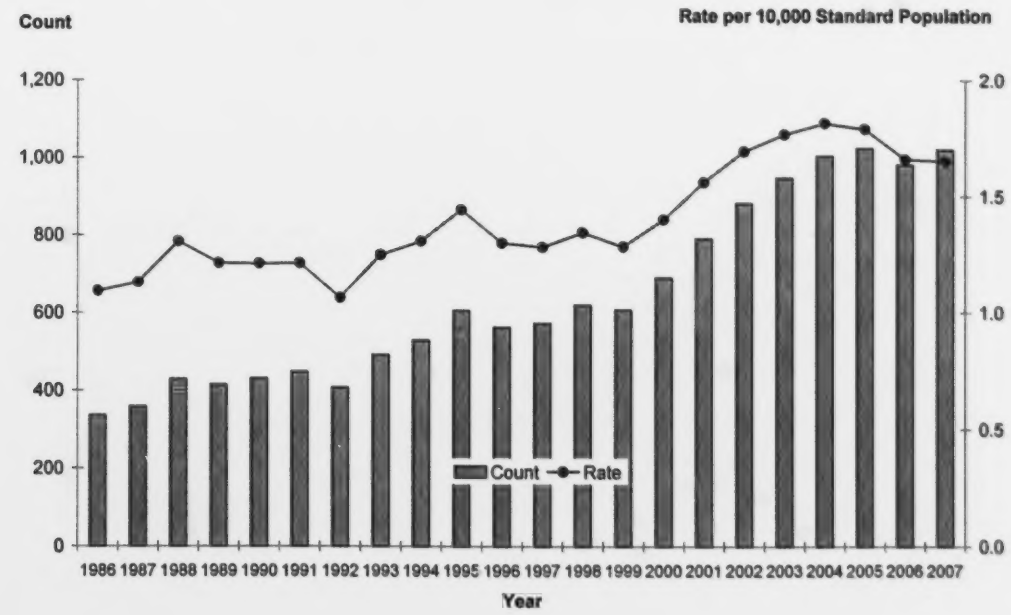


FIGURE 24

DEATHS AND DEATH RATES, NERVOUS SYSTEM DISEASES

BRITISH COLUMBIA, 1986-2007

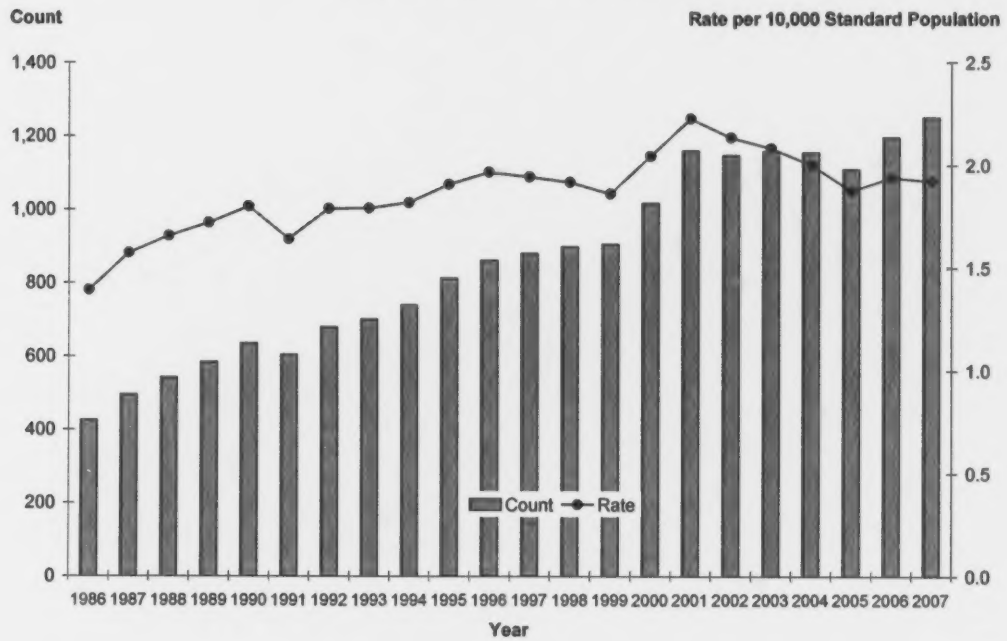


FIGURE 25

DEATHS AND DEATH RATES, CARDIOVASCULAR DISEASE

BRITISH COLUMBIA, 1986-2007

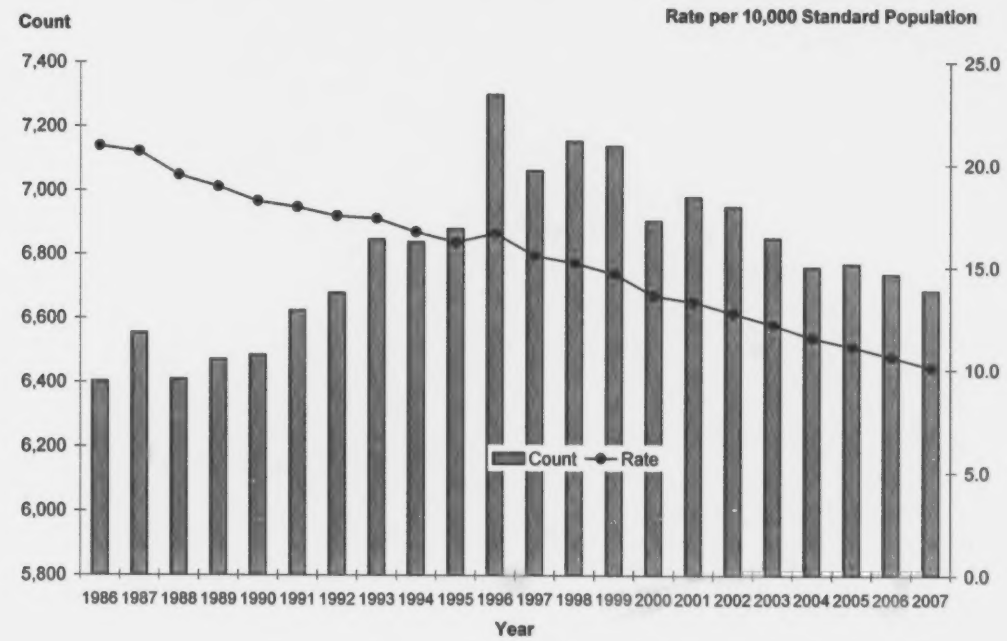


FIGURE 26

DEATHS AND DEATH RATES, CEREBROVASCULAR DISEASES

BRITISH COLUMBIA, 1986-2007

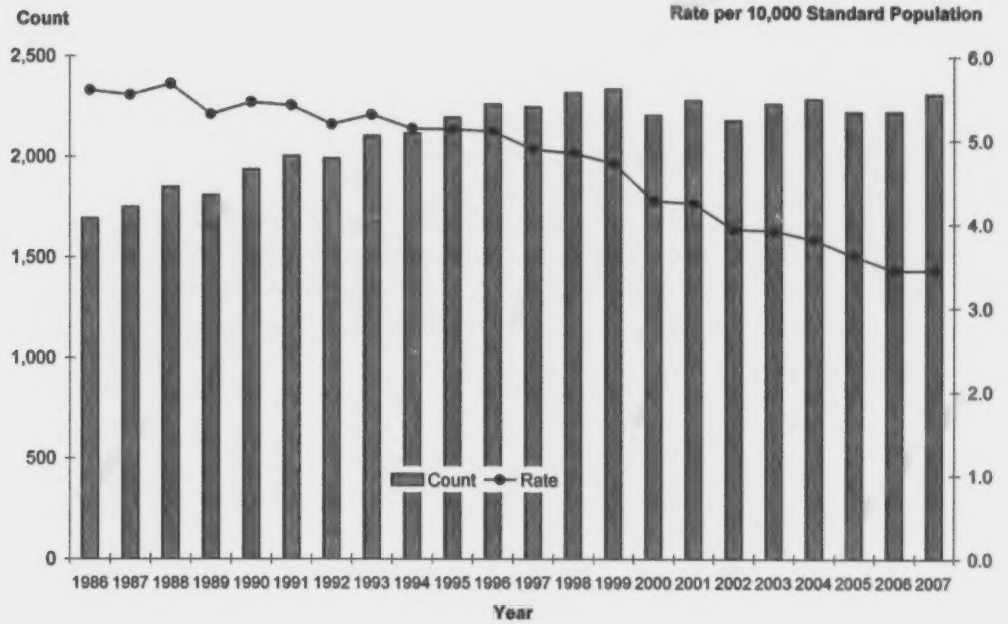
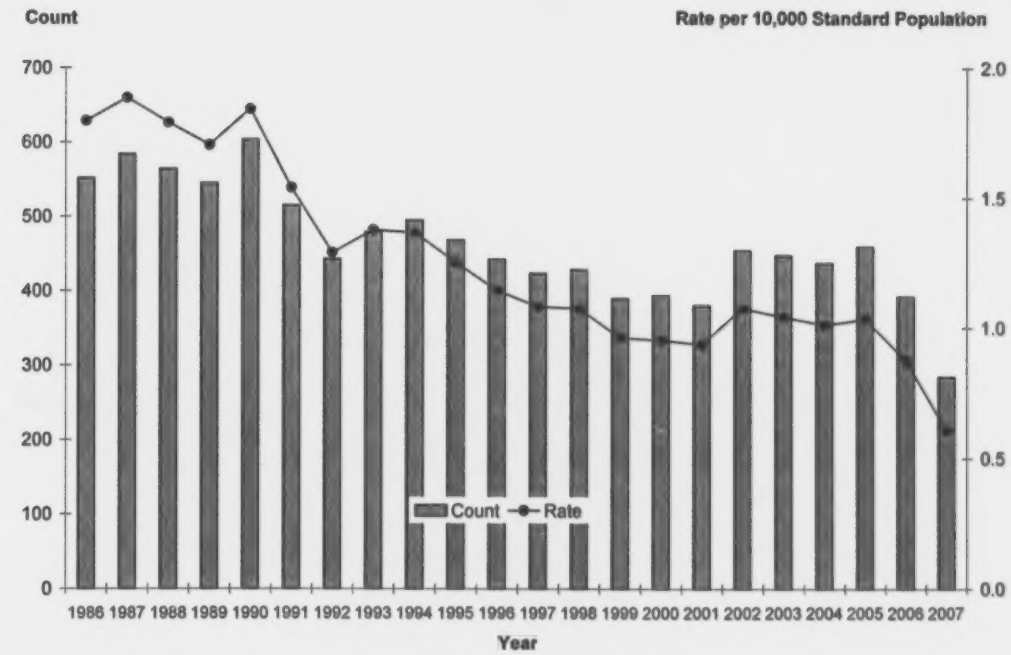


FIGURE 27

DEATHS AND DEATH RATES, MOTOR VEHICLE ACCIDENTS

BRITISH COLUMBIA, 1986–2007



Marriage Trends

Table 6 and Figure 28 display the average age at which men and women get married. Over the last couple of decades the average age for first marriages increased by 5.8 years for men, and by 6.5 years for women.

The average age for all marriages increased from 29.3 years to 35.5 years for men and for women rose from 26.2 years to 33.0 years over the last 21 years.

Over that same time period the average age of men marrying tended to be 2 to 3 years older than the average age of women marrying. Generally, the age difference at which men and women marry was greater for all marriages than for first marriages.

TABLE 6

AGE OF FIRST AND ALL MARRIAGES

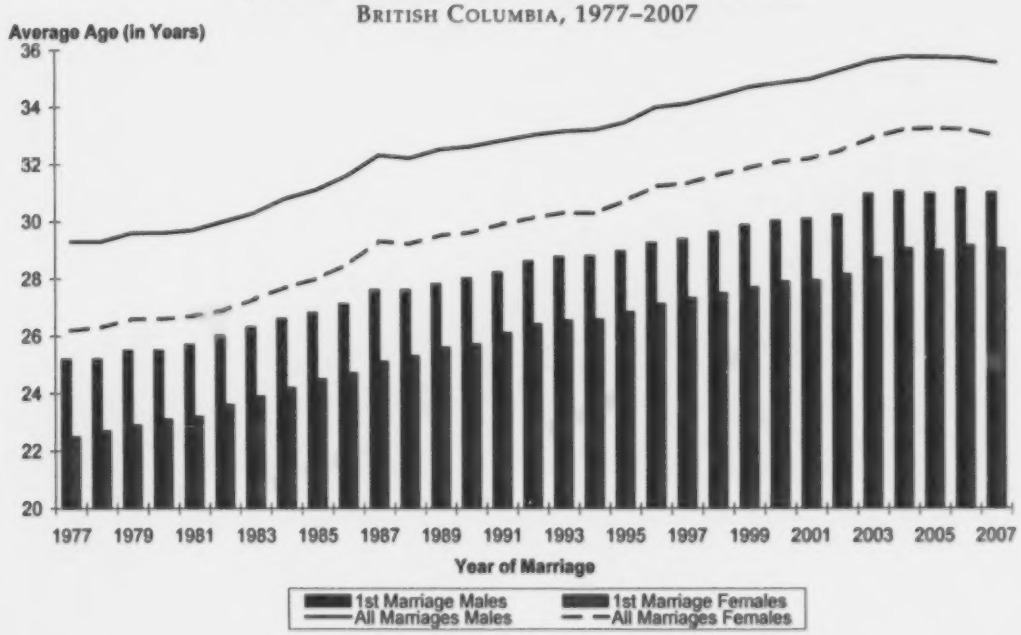
BRITISH COLUMBIA, 1977–2007

Year of Marriage	Average Age (in Years)			
	First Marriage		All Marriages	
	Males	Females	Males	Females
1977	25.2	22.5	29.3	26.2
1978	25.2	22.7	29.3	26.3
1979	25.5	22.9	29.6	26.6
1980	25.5	23.1	29.6	26.6
1981	25.7	23.2	29.7	26.7
1982	26.0	23.6	30.0	26.9
1983	26.3	23.9	30.3	27.3
1984	26.6	24.2	30.8	27.7
1985	26.8	24.5	31.1	28.0
1986	27.1	24.7	31.6	28.5
1987	27.6	25.1	32.3	29.3
1988	27.6	25.3	32.2	29.2
1989	27.8	25.6	32.5	29.5
1990	28.0	25.7	32.6	29.6
1991	28.2	26.1	32.8	29.9
1992	28.6	26.4	33.0	30.1
1993	28.7	26.5	33.1	30.3
1994	28.8	26.6	33.2	30.3
1995	28.9	26.8	33.4	30.7
1996	29.2	27.1	34.0	31.2
1997	29.4	27.3	34.1	31.3
1998	29.6	27.5	34.4	31.6
1999	29.8	27.7	34.7	31.8
2000	30.0	27.9	34.8	32.1
2001	30.1	27.9	35.0	32.2
2002	30.2	28.1	35.3	32.5
2003	30.9	28.7	35.6	32.9
2004	31.0	29.0	35.7	33.2
2005	30.9	29.0	35.7	33.2
2006	31.1	29.1	35.7	33.2
2007	31.0	29.0	35.5	33.0

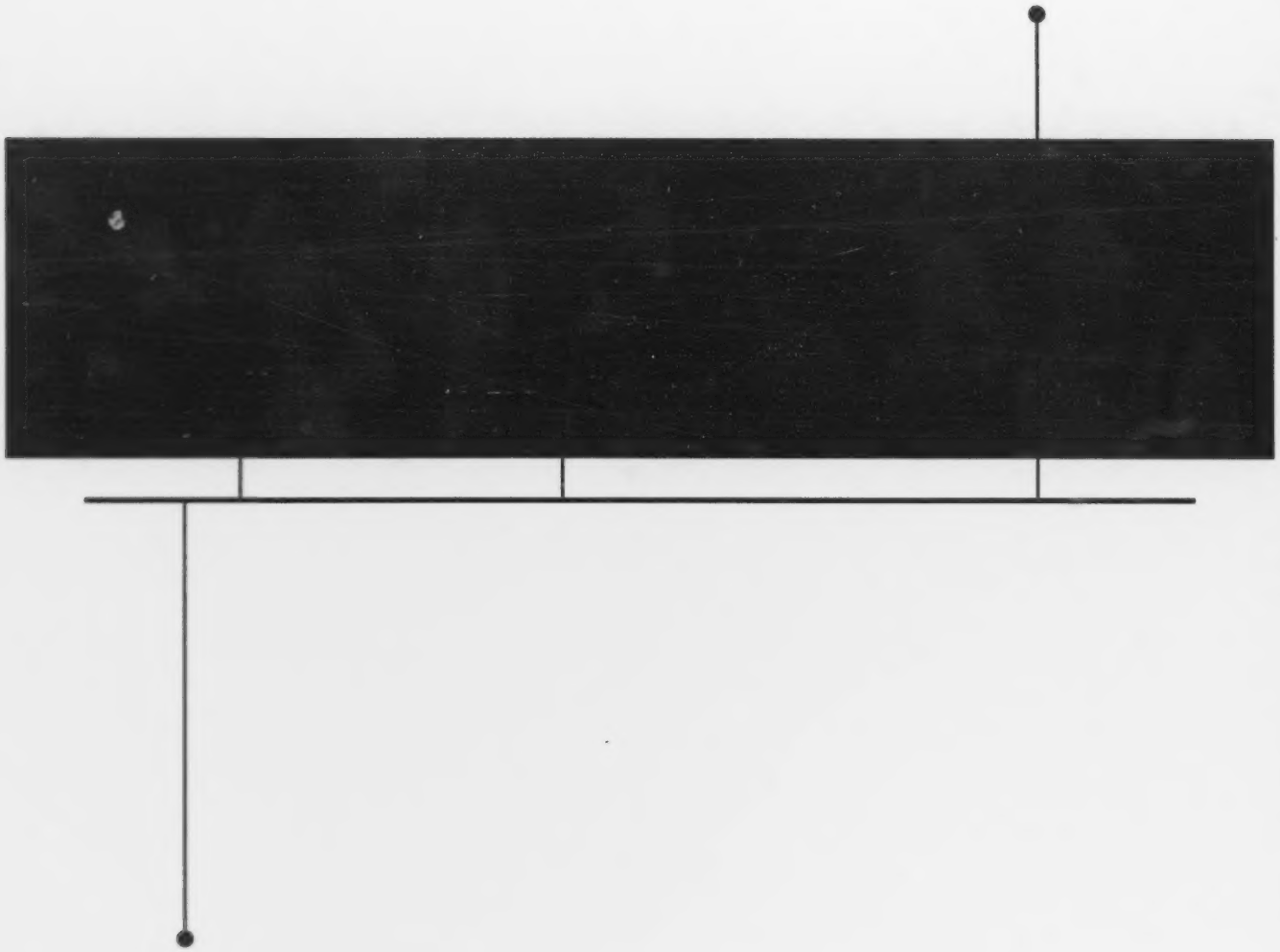
FIGURE 28

AGE OF FIRST AND ALL MARRIAGES

BRITISH COLUMBIA, 1977–2007



Birth-related Statistics



Birth Introduction

Statistics based on birth events form a crucial part of the demographic profile of communities, regions, provinces, and countries. They are used to derive important indicators of health status, fertility, infant mortality, and population growth. In turn, those indicators are used for health planning, policy formulation, research, and commerce. The tables in this part of the report present birth statistics categorized by maternal characteristics and other related measures. The tables refer only to live births except Table 7 which also includes stillbirths. The mother's usual residence is used to identify geographic location.

Births – General Indicators

Certain birth and parental characteristics that are presented in this section have been shown to be related to the infant's health status or are of general interest. These characteristics include age of mother, age of father, kind of birth (single, twin, or multiple), LHA of usual residence, and mode of delivery.

Table 7 shows the live birth cardinality by mother's age. Over 80 percent of live births in 2007 were first or second births. Second, third, and subsequent live births tend to have been delivered to progressively older women.

Table 8 shows the number of live births in BC in 2007 by the age of mother and the age of father. It also shows, for each maternal age range, the number of infants born to couples who were not formally married to each other (Out-of-Wedlock).

Over half of the births (50.1 percent) in 2007 were to mothers 30 to 39 years old and 42.6 percent were to mothers in their twenties. Only 3.4 percent were to mothers less than 20 years and 4.0 percent to those 40 or older. For fathers, over half (52.6 percent) were in their thirties, more than a quarter (27.5 percent) were in their twenties, 13.7 percent were in their forties or older and 1.0 percent were less than 20 years old. In 5.3 percent of births, the father's age was not indicated.

Less than one percent (0.8 percent) of births (327) were to couples who were both in their teens; births to couples in which at least one person was a teen, made up 3.6 percent (1,558) of births.

While there were only 103 births (0.2 percent) to mothers age 45 years old and over, 3.9 percent (1,704) of all newborns had fathers in that age group.

Table 9 shows the number of births where a single baby was delivered, the number of births that were twin deliveries, and the number that were triplets or more, according to the mother's age group. In 2007, 5.0 percent of births to mothers 35 years and older were multiple live births; whereas, 2.7 percent of live births to mothers aged 20 to 34 were multiples and teenagers had the lowest proportion (1.4 percent).

In recent decades there has been a gradual increase in multiple birth rates in BC (see Figure 8). The proportions of multiple live births increased from 1.9 percent of all live births in 1986 to 3.2 percent in 2007, but most births (96.8 percent) are still singletons.

Table 10 shows the 2007 fertility rates in the LHA where the mother resided and by maternal age groups. The table also shows the number of live births to women 15-19 years of age over the 5 year period 2002-2006 and the fertility rate for that age group.

In Figure 29 the *Age Specific Fertility Rate* (ASFR) statistics for 15-19 year olds for the 5 year period 2002-2006 are shown by LHA. The ASFR is described more fully in the *Glossary* and an example of the calculation method is shown in the *Methodology* section.

Table 11 shows the number and percentage of births in each maternal age group according to their mode of delivery. Generally, the proportion of births that were spontaneous vertex deliveries (which generally require no medical intervention), and to a lesser extent births assisted by vacuum extraction, are higher for younger mothers. On the other hand, deliveries by cesarean section are proportionally higher for older mothers (see also Figure 13).

Cesarean section deliveries in BC increased from 209.6 per 1,000 live births in 1986 to 310.6 in 2007 (see Figure 11).

Table 12 shows live births by the Local Health Area where the mother usually resided and focuses on spontaneous vertex and cesarean section modes of delivery. Spontaneous breech, forceps, and vacuum deliveries are combined into the 'Other' category. The table shows the number and percent of live births that were delivered by cesarean section.

The columns on the right side of the table indicate the total number of live births in 2007 to residents of each LHA and the birth rate per 1,000 population. The LHA with the highest live birth rate was more than four times the rate of the lowest. For more comparisons of cesarean rates see also Figures 11, 12, and 13.

In Figure 30 the Local Health Areas (LHAs) are grouped by their ratio of observed number of cesarean live births over expected number of cesarean live births for 2007. The figure shows the LHAs in quintiles from those with the highest cesarean ratios (quintile 5) to those with the lowest such rates (quintile 1).

Vital Statistics Information Box

Births by Mother's Country of Birth

British Columbia, 2007

Area	Province/Country	Births
Canada	**Total**	**28,813**
	British Columbia	20,520
	Ontario	2,670
	Alberta	2,483
	Manitoba	844
	Saskatchewan	839
	Quebec	638
	Nova Scotia	300
	Newfoundland & Labrador	187
	New Brunswick	162
	Yukon	77
	Northwest Territories and Nunavut	51
	Prince Edward Island	39
	Unknown Province	3
North and Central America	**Total**	**1,228**
	United States	690
	Other North and Central American Countries	538
South America		**269**
Europe	**Total**	**1,902**
	England	433
	Other United Kingdom	273
	Germany	221
	Romania	138
	Poland	118
	Scandinavian Countries	69
	Slovakia	57
	Netherlands	50
	France	47
	Ukraine	46
	Switzerland	45
	Other European Countries	405
Asia and the Middle East	**Total**	**9,855**
	India	2,654
	China	2,301
	Philippines	1,307
	Vietnam	652
	Japan	351
	Hong Kong	326
	Taiwan	315
	Korea	255
	Iran	247
	Pakistan	228
	Other Asian and Middle Eastern Countries	1,219
Africa	**Total**	**563**
Oceania	**Total**	**430**
	Fiji	245
	Australia	119
	Other Oceanic Countries	66
Unknown	**Total**	**457**
Total		**43,517**

Note: Births consist of live births only. Non-residents are excluded.

TABLE 7
BIRTHS BY AGE OF MOTHER AND LIVE BIRTHS BY BIRTH ORDER
BRITISH COLUMBIA, 2007

Age of Mother	Birth Order										Total Live Births	Stillbirths	Total Births
	1	2	3	4	5	6	7	8	9+	N.S.			
13	2	-	-	-	-	-	-	-	-	-	2	1	3
14	9	-	-	-	-	-	-	-	-	-	9	-	9
15	45	-	-	-	-	-	-	-	-	-	45	-	45
16	133	10	1	-	-	-	-	-	-	-	144	1	145
17	236	15	2	-	-	-	-	-	-	-	253	1	254
18	360	56	3	-	-	-	-	-	-	-	419	1	420
19	479	107	7	1	-	-	-	-	-	-	594	5	599
20	648	175	19	6	-	-	-	-	-	-	848	4	852
21	782	263	58	5	2	1	-	-	-	-	1,111	7	1,118
22	758	409	69	12	1	-	-	-	-	-	1,249	11	1,260
23	873	447	110	26	7	-	-	-	-	-	1,463	12	1,475
24	930	571	166	38	8	2	-	-	-	-	1,715	15	1,730
25	1,123	635	219	50	12	3	-	-	-	-	2,042	15	2,057
26	1,159	726	251	55	27	6	-	1	-	-	2,225	15	2,240
27	1,274	808	279	91	21	11	3	-	-	-	2,487	16	2,503
28	1,272	968	254	92	15	9	4	1	1	-	2,616	20	2,636
29	1,319	995	342	70	23	9	7	2	3	-	2,770	18	2,788
30	1,340	1,023	383	119	32	7	2	2	1	-	2,909	24	2,933
31	1,190	1,156	395	99	39	9	4	3	-	-	2,895	22	2,917
32	1,115	1,140	433	104	43	16	6	3	4	1	2,865	21	2,886
33	1,028	1,079	371	122	31	13	5	1	1	-	2,651	25	2,676
34	875	1,049	380	102	30	11	12	2	4	-	2,465	15	2,480
35	768	981	373	115	28	19	9	4	1	-	2,298	19	2,317
36	643	851	324	96	39	17	5	1	3	-	1,979	22	2,001
37	504	673	265	84	25	13	6	4	3	-	1,577	17	1,594
38	353	529	228	70	18	16	5	7	4	-	1,230	15	1,245
39	257	416	154	57	18	9	3	1	1	-	916	9	925
40	185	291	111	43	14	4	4	2	7	-	661	6	667
41	125	171	80	26	11	10	1	1	6	-	431	5	436
42	68	118	51	18	10	3	5	2	6	-	281	3	284
43	43	70	32	14	6	2	1	-	5	-	173	-	173
44	21	37	14	8	6	1	-	1	3	-	91	1	92
45	24	7	10	6	2	-	-	-	4	-	53	3	56
45+	21	16	8	4	-	-	-	-	1	-	50	1	51
TOTAL	**19,962**	**15,792**	**5,392**	**1,533**	**468**	**191**	**82**	**38**	**58**	**1**	**43,517**	**350**	**43,867**
PERCENT	**45.9**	**36.3**	**12.4**	**3.5**	**1.1**	**0.4**	**0.2**	**0.1**	**0.1**	**0.0**	**100.0**		

Note: Birth order denotes the number of live births. Total includes unknown gender. Non-residents are excluded. N.S. – Not stated.

TABLE 8
TOTAL LIVE BIRTHS BY AGE OF FATHER, AGE OF MOTHER AND OUT-OF-WEDLOCK
BRITISH COLUMBIA, 2007

Age of Father	Age of Mother (in Years)									Total	Percent
	<15	15–19	20–24	25–29	30–34	35–39	40–44	45+	N.S.		
< 15	1	1	-	-	-	1	-	-	-	3	0.0
15-19	6	319	82	6	2	1	-	-	-	416	1.0
20-24	-	568	1,977	541	96	17	1	-	-	3,200	7.4
25-29	-	173	2,397	4,812	1,151	199	15	1	-	8,748	20.1
30-34	-	42	816	4,281	6,284	1,263	98	7	-	12,791	29.4
35-39	-	12	280	1,405	4,313	3,742	354	7	-	10,113	23.2
40-44	-	10	87	389	1,180	1,866	701	19	-	4,252	9.8
45+	-	2	41	158	381	664	394	64	-	1,704	3.9
N.S.	4	328	706	548	378	247	74	5	-	2,290	5.3
TOTAL	**11**	**1,455**	**6,386**	**12,140**	**13,785**	**8,000**	**1,637**	**103**	**-**	**43,517**	
Percent	**0.0**	**3.3**	**14.7**	**27.9**	**31.7**	**18.4**	**3.8**	**0.2**			**100.0**
Out-of-Wedlock	**8**	**1,210**	**3,610**	**3,202**	**2,229**	**1,339**	**337**	**22**	**-**	**11,957**	

Note: Total percentage may not add up to 100 due to rounding.
Out-of-Wedlock - Indicates mother and father of child were not legally married to each other and excludes 1,706 cases where marital status was not stated.
Non-residents are excluded. N.S. – Not stated.

TABLE 9
LIVE BIRTHS BY AGE OF MOTHER AND KIND OF BIRTH
BRITISH COLUMBIA, 2007

Age of Mother	Kind of Birth				Total
	Single	Twin	Triplets+	N.S.	
< 15	11	-	-	-	11
15-19	1,435	20	-	-	1,455
20-24	6,239	147	-	-	6,386
25-29	11,834	291	15	-	12,140
30-34	13,361	421	3	-	13,785
35-39	7,643	354	2	1	8,000
40-44	1,525	112	-	-	1,637
45 +	85	18	-	-	103
N.S.	-	-	-	-	-
TOTAL	**42,133**	**1,363**	**20**	**1**	**43,517**

Note: For the multiple births which include stillbirths, only live births are shown in this table. Triplets+ : included in this column are the live births from multiple births of three or more. Non-residents are excluded. N.S.- Not stated.

Table 10

LIVE BIRTH FERTILITY RATES BY LOCAL HEALTH AREA, BRITISH COLUMBIA, 2002–2006 AND 2007

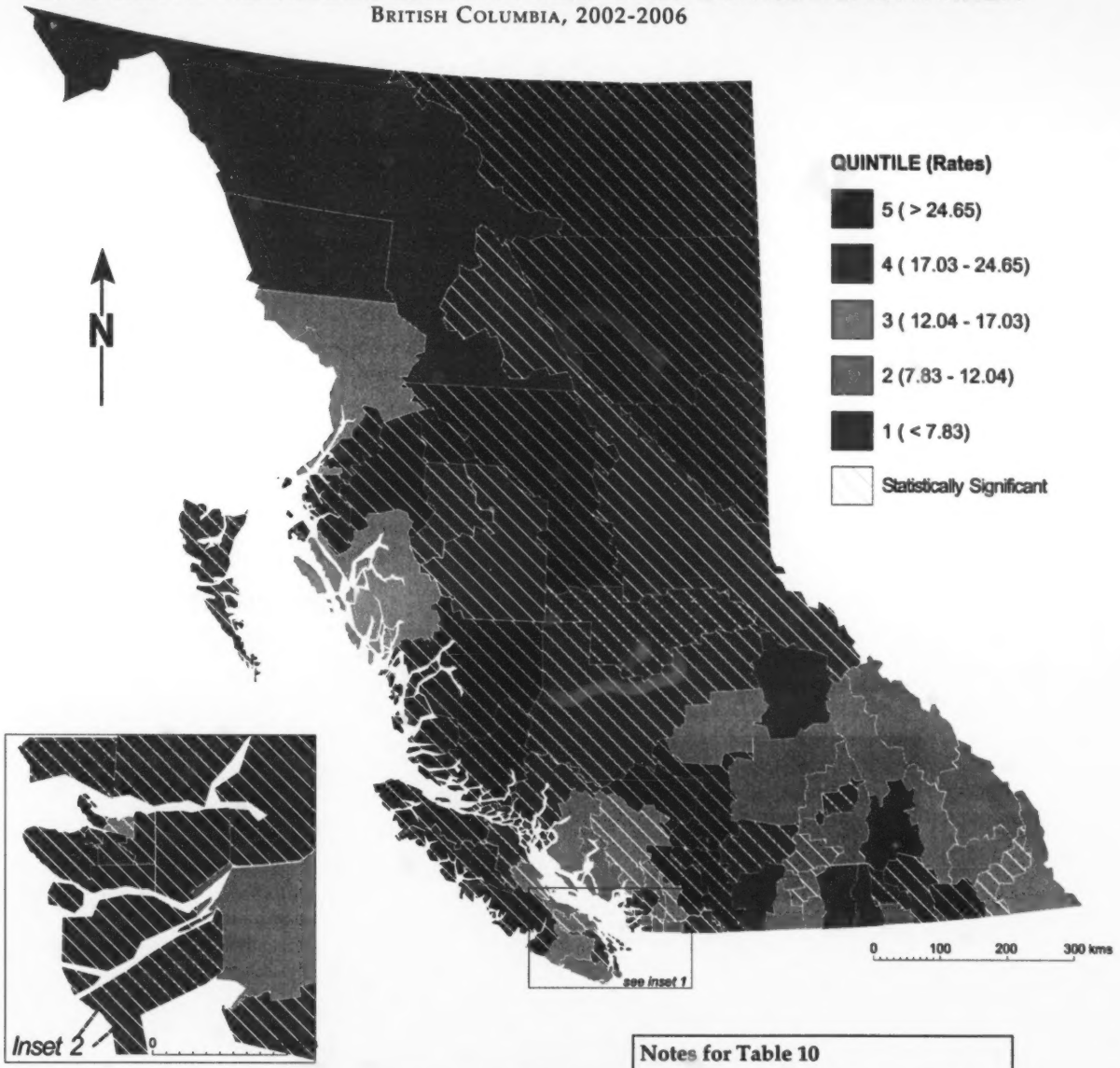
Local Health Area		2002–2006 Teenage Fertility Rate (15–19 yrs)			2007 ASFR[1]						TFR[2]	
		Observed	ASFR[1]	(p)	15–19	20–24	25–29	30–34	35–39	40–44	Rate	(p)
001	Fernie	34	13.63		2.07	77.67	117.51	94.74	38.70	5.42	1,680.57	
002	Cranbrook	78	16.86	*	23.23	63.88	130.37	85.23	33.95	4.08	1,703.71	*
003	Kimberley	13	11.14		3.83	52.91	142.86	97.56	55.56	-	1,763.58	
004	Windermere	16	10.81		20.48	70.77	101.08	71.20	20.98	8.13	1,463.18	
005	Creston	61	31.14	*	31.55	154.17	150.63	70.37	12.12	13.23	2,160.33	*
006	Kootenay Lake	7	13.81		-	120.00	142.86	103.17	37.04	17.86	2,104.63	
007	Nelson	26	6.24	*	10.90	34.68	93.02	102.80	37.67	15.04	1,470.57	
009	Castlegar	9	4.36	*	2.33	70.65	93.65	104.06	32.11	1.93	1,523.64	
010	Arrow Lakes	4	6.75		-	155.17	116.28	125.00	52.94	6.62	2,280.08	*
011	Trail	29	8.15		11.85	38.11	95.98	106.56	33.00	4.15	1,448.28	
012	Grand Forks	23	17.29		16.60	63.83	86.96	113.21	24.90	9.32	1,574.02	
013	Kettle Valley	8	17.20		11.49	83.33	119.40	65.79	32.61	-	1,563.14	
014	Southern Okanagan	32	13.58		12.89	63.95	125.64	91.55	25.86	3.26	1,615.80	
015	Penticton	85	13.87	*	11.03	68.43	96.90	71.36	32.51	4.75	1,424.92	
016	Keremeos	7	12.28		32.89	132.53	135.92	114.94	-	-	2,081.45	
017	Princeton	12	17.86		27.59	50.51	156.25	42.11	22.39	-	1,494.17	
018	Golden	11	9.61		13.51	50.85	85.11	59.70	45.11	3.41	1,288.47	
019	Revelstoke	20	13.68		7.27	62.02	59.83	92.59	35.34	6.01	1,315.26	
020	Salmon Arm	55	10.63		8.77	77.02	120.37	77.89	36.50	8.81	1,646.77	
021	Armstrong - Spallumcheen	9	5.28	*	8.40	95.24	161.43	78.60	31.03	7.59	1,911.54	*
022	Vernon	118	11.42		8.60	61.24	116.88	76.48	35.15	3.73	1,510.34	
023	Central Okanagan	249	9.33	*	10.16	50.86	88.20	100.96	41.38	7.08	1,493.20	
024	Kamloops	220	11.80		10.42	52.48	104.82	94.12	33.03	5.49	1,501.80	
025	100 Mile House	34	14.15		15.15	79.86	137.81	82.19	19.09	7.07	1,705.87	
026	North Thompson	13	17.22		26.14	142.86	207.32	104.84	28.17	18.52	2,639.22	*
027	Cariboo - Chilcotin	113	22.44	*	32.39	81.32	123.70	97.74	27.87	5.75	1,843.91	*
028	Quesnel	87	19.82	*	28.40	106.51	133.12	83.46	23.03	1.11	1,878.17	*
029	Lillooet	28	32.18	*	17.75	126.98	115.38	90.91	13.25	-	1,821.37	
030	South Cariboo	33	27.48	*	37.74	84.85	114.75	60.98	33.52	3.88	1,678.55	
031	Merritt	49	23.34	*	17.20	112.46	115.13	90.63	29.73	2.22	1,836.89	*
032	Hope	45	30.82	*	22.47	80.81	103.45	97.83	26.55	13.79	1,724.48	
033	Chilliwack	287	21.31	*	20.08	83.33	137.56	103.07	40.01	3.44	1,937.46	*
034	Abbotsford	256	11.22		16.87	69.96	130.15	99.28	36.97	7.07	1,801.52	*
035	Langley	169	7.88	*	5.66	38.53	108.51	118.99	46.45	6.75	1,624.46	*
037	Delta	70	3.71	*	3.69	21.31	90.12	119.02	52.45	8.15	1,473.74	
038	Richmond	77	2.59	*	2.43	15.03	62.82	117.86	58.82	10.17	1,335.59	*
040	New Westminster	71	9.77		14.81	37.00	66.49	88.55	56.32	16.30	1,397.33	
041	Burnaby	166	5.08	*	5.14	18.02	59.63	109.25	64.34	13.66	1,350.27	*
042	Maple Ridge	123	8.47	*	6.77	34.87	123.69	109.53	41.36	10.52	1,633.64	*
043	Coquitlam	160	4.43	*	4.18	22.79	75.89	128.31	57.32	8.96	1,487.23	
044	North Vancouver	64	2.96	*	1.78	15.31	50.31	109.57	71.51	14.15	1,313.12	*
045	West Vancouver-Bowen Is.	22	2.50	*	3.07	11.52	40.41	125.41	67.87	13.61	1,309.45	
046	Sunshine Coast	37	8.32		6.28	60.93	113.55	87.30	39.26	9.74	1,585.33	
047	Powell River	43	14.15		12.97	55.07	102.72	69.51	36.91	1.27	1,392.19	
048	Howe Sound	65	14.83	*	11.70	43.01	62.91	113.81	82.49	13.93	1,639.26	*
049	Bella Coola Valley	42	63.54	*	61.40	78.95	114.29	36.59	37.74	19.05	1,740.03	
050	Queen Charlotte	18	22.96	*	26.49	42.25	104.48	56.82	38.46	-	1,342.50	
051	Snow Country	1	13.16		83.33	250.00	-	117.65	43.48	-	2,472.29	
052	Prince Rupert	124	40.27	*	34.01	101.66	145.35	83.15	32.43	8.83	2,027.20	*
053	Upper Skeena	41	39.61	*	37.34	116.28	90.91	49.45	57.69	4.65	1,781.63	
054	Smithers	75	22.87	*	18.69	90.73	153.32	111.78	41.24	8.31	2,120.31	*
055	Burns Lake	32	21.74	*	27.95	90.91	112.90	83.33	47.43	3.28	1,829.03	*
056	Nechako	90	31.55	*	33.10	144.77	126.85	118.61	35.79	3.51	2,313.10	*
057	Prince George	338	17.93	*	16.57	67.06	104.54	85.76	37.95	4.40	1,581.43	*
059	Peace River South	126	25.50	*	17.71	109.56	139.42	80.23	31.18	7.20	1,926.53	*
060	Peace River North	183	29.21	*	37.63	123.33	139.03	95.20	38.61	9.48	2,216.36	*
061	Greater Victoria	276	8.64	*	6.17	25.57	55.62	74.95	51.37	11.55	1,126.16	*
062	Sooke	101	10.20		7.92	54.78	101.42	99.72	39.01	6.61	1,547.27	
063	Saanich	76	7.67	*	8.98	26.18	83.33	105.57	46.15	1.87	1,360.49	
064	Gulf Islands	12	6.37	*	5.03	40.96	109.24	78.08	52.48	17.74	1,517.60	
065	Cowichan	174	17.90	*	19.35	71.34	124.91	95.34	40.88	7.70	1,797.54	*
066	Lake Cowichan	15	14.87		9.09	88.89	105.63	50.96	26.88	4.44	1,429.48	
067	Ladysmith	57	21.11	*	10.56	92.42	144.28	78.30	33.71	4.65	1,819.59	*
068	Nanaimo	228	13.54	*	14.49	55.16	86.20	92.18	39.39	5.31	1,463.60	
069	Qualicum	48	8.70		8.29	63.23	109.77	72.77	32.48	7.02	1,467.82	
070	Alberni	148	29.83	*	41.55	74.19	103.52	74.69	52.09	4.44	1,752.46	*
071	Courtenay	149	14.96	*	8.53	63.90	107.75	86.00	35.86	7.78	1,549.02	
072	Campbell River	129	18.50	*	19.59	82.03	103.38	98.29	27.11	4.32	1,673.67	*
075	Mission	111	15.16	*	17.25	67.37	125.82	98.52	30.70	5.06	1,723.62	*
076	Agassiz - Harrison	38	30.21	*	28.93	157.41	155.56	122.45	23.81	7.94	2,480.42	*
077	Summerland	16	8.25		9.48	83.33	75.47	86.96	24.92	7.04	1,436.02	
078	Enderby	28	21.49	*	31.91	122.07	108.25	73.62	24.39	14.44	1,873.39	*
080	Kitimat	35	15.53		12.38	72.61	125.49	41.67	29.81	2.37	1,421.60	
081	Fort Nelson	45	36.86	*	52.38	111.55	97.56	68.35	29.20	-	1,795.19	
083	Central Coast	20	58.14	*	20.41	161.29	192.31	68.97	-	-	2,214.86	
084	Vancouver Island West	16	39.51	*	21.98	87.72	76.92	40.54	-	-	1,135.80	
085	Vancouver Island North	93	37.55	*	37.12	148.26	139.53	67.65	26.70	8.00	2,136.32	*
087	Stikine	3	19.48		-	31.25	50.00	66.67	-	-	739.58	
088	Terrace	122	31.00	*	27.22	109.78	134.12	83.21	38.71	2.27	1,976.53	*
092	Nisga'a	30	78.74	*	108.70	250.00	79.37	80.46	57.69	-	2,881.06	*
094	Telegraph Creek	4	23.81		25.64	114.29	400.00	100.00	-	-	3,199.63	
161	Vancouver - City Centre	21	2.84	*	3.47	6.78	20.06	49.99	46.78	14.04	705.56	*
162	Vancouver - Downtown E.side	87	16.78	*	13.25	21.14	30.53	63.80	45.68	12.54	934.71	*
163	Vancouver - North East	79	5.28	*	7.75	19.10	57.45	106.55	64.85	11.65	1,336.76	*
164	Vancouver - Westside	18	0.93	*	1.31	4.22	27.51	74.54	75.97	17.29	1,004.19	*
165	Vancouver - Midtown	81	7.77	*	4.03	25.53	48.56	82.59	70.98	18.35	1,250.20	*
166	Vancouver - South	98	4.39	*	3.92	22.67	62.69	94.44	59.55	14.71	1,289.93	*
201	Surrey	595	10.39		10.30	54.38	122.49	103.56	47.90	8.98	1,738.11	*
202	South Surrey/White Rock	21	1.84	*	3.55	18.85	57.72	105.53	56.07	8.87	1,252.97	*
	PROVINCIAL TOTAL	**7,191**	**10.53**		**10.52**	**42.07**	**82.83**	**95.24**	**49.51**	**9.39**	**1,447.87**	

Notes for this table follow the map.

FIGURE 29

LIVE BIRTH TEENAGE FERTILITY RATES BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 2002-2006



Notes for Table 10

ASFR: Live births per 1,000 women in each specific age group of childbearing age.
TFR: Sum of age-specific (15 to 44 years) fertility rates multiplied by the number of years in each age group (see Glossary for definition).
*Statistical testing indicates that fertility rate is significantly different from the average rate ($p<0.05$, two tailed).
Non-residents are excluded.

Note: ASFR - Live births per 1,000 women age 15 to 19 years. Refer to Figure 1 to clarify geographical location of LHAs.

TABLE 11
LIVE BIRTHS BY MODE OF DELIVERY AND AGE OF MOTHER
BRITISH COLUMBIA, 2007

Mode of Delivery	Age of Mother (in Years)									Total
	<15	15–19	20–24	25–29	30–34	35–39	40–44	45+	N.S.	
Spontaneous vertex	9	1,044	4,196	7,363	8,009	4,202	774	34	-	25,631
Percent	81.8	71.8	65.7	60.7	58.1	52.5	47.3	33.0		58.9
Spontaneous breech	-	7	15	44	46	35	9	2	-	158
Percent	0.0	0.5	0.2	0.4	0.3	0.4	0.5	1.9		0.4
Forceps	-	36	172	478	492	254	43	4	-	1,479
Percent	0.0	2.5	2.7	3.9	3.6	3.2	2.6	3.9		3.4
Vacuum	-	118	450	850	795	435	74	3	-	2,725
Percent	0.0	8.1	7.0	7.0	5.8	5.4	4.5	2.9		6.3
First cesarean	2	226	1,185	2,219	2,588	1,647	395	51	-	8,313
Percent	18.2	15.5	18.6	18.3	18.8	20.6	24.1	49.5		19.1
Repeat cesarean	-	23	366	1,184	1,853	1,427	342	9	-	5,204
Percent	0.0	1.6	5.7	9.8	13.4	17.8	20.9	8.7		12.0
N.S.	-	1	2	2	2	-	-	-	-	7
TOTAL	**11**	**1,455**	**6,386**	**12,140**	**13,785**	**8,000**	**1,637**	**103**	**-**	**43,517**
Percent	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**		**100.0**

Note: Breech presentations may be coded to forceps, vacuum, first cesarean or repeat cesarean mode of delivery, as well as spontaneous breech. Total percentage may not add up to 100 due to rounding. Non-residents are excluded. N.S. - Not stated.

Vital Statistics Information Box

Place of Birth for Midwife Assisted Births
British Columbia, 2000-2007

The College of Midwives of British Columbia was established in 1995 and the first midwives were registered to practice in 1998. The Vital Statistics Agency implemented procedures to identify births delivered by registered midwives in 1998, and, by 1999, could identify all midwife assisted births. The table below shows the place of birth for midwife assisted births in the province from 2000 to 2007.

	2000		2001		2002		2003		2004		2005		2006		2007	
Place of Birth	**No.**	**%**	**No.**	**%**	**No.**	**%**	**No.**	**%**	**No.**	**%**	**No.**	**%**	**No.**	**%**	**No.**	**%**
Hospital	661	62.1	854	63.2	840	63.2	1,052	68.4	1,168	69.4	1,505	70.8	1,766	74.0	2,056	75.6
Home	387	36.3	417	30.9	416	31.3	432	28.1	462	27.5	475	22.3	229	9.6	142	5.2
Other & unknown*	17	1.6	80	5.9	74	5.6	54	3.5	53	3.1	146	6.9	392	16.4	523	19.2
Midwife Assisted Births	**1,065**	**100.0**	**1,351**	**100.0**	**1,330**	**100.0**	**1,538**	**100.0**	**1,683**	**100.0**	**2,126**	**100.0**	**2,387**	**100.0**	**2,721**	**100.0**
Percent of Total Births Delivered by Registered Midwives		**2.6**		**3.3**		**3.3**		**3.8**		**4.2**		**5.2**		**5.7**		**6.3**

Note: *Other and unknown includes birthing clinics.

Table 12

LIVE BIRTHS BY LOCAL HEALTH AREA AND MODE OF DELIVERY, BRITISH COLUMBIA, 2007

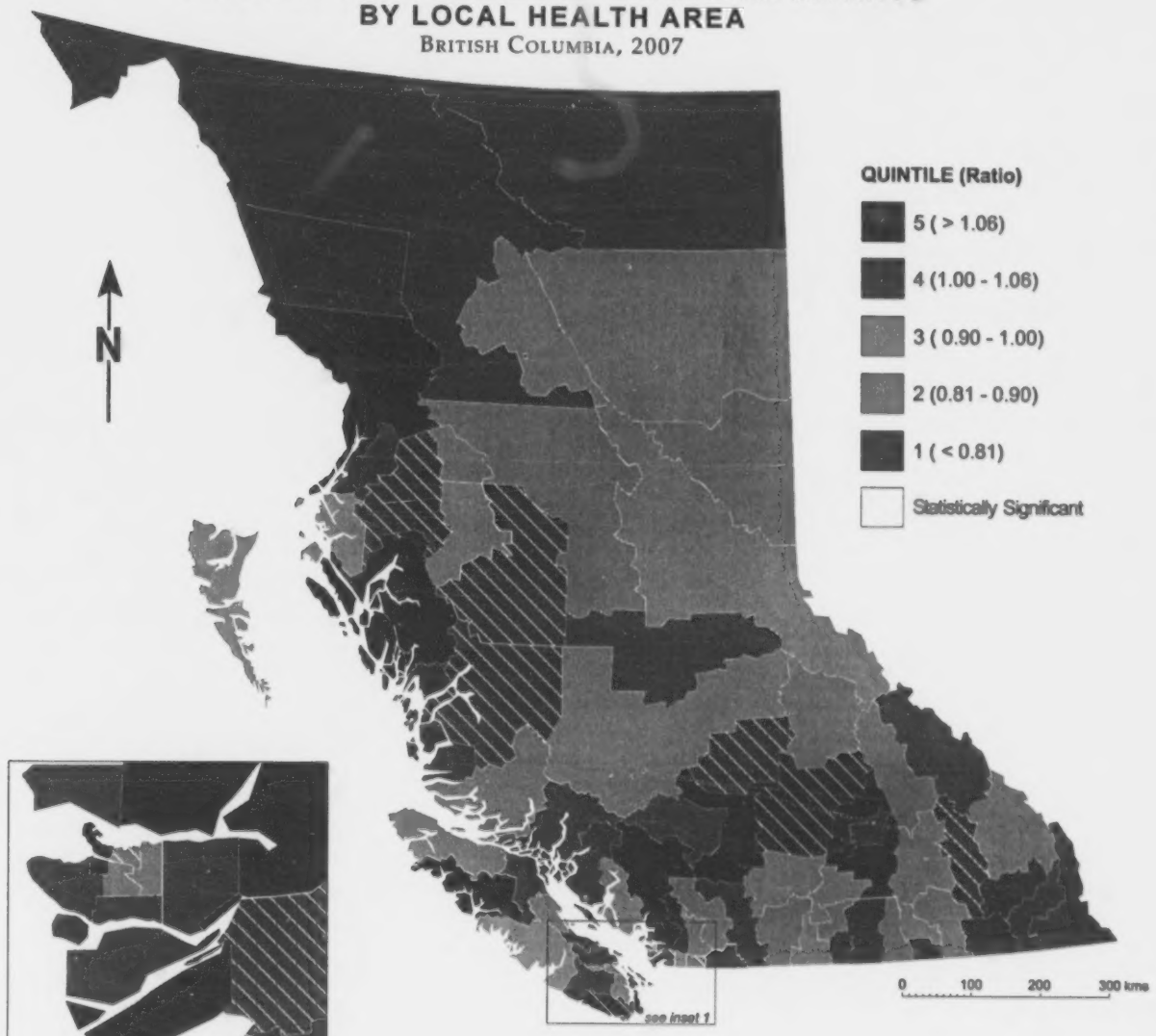
	Local Health Area	Spontaneous Vertex	Cesarean						Other	N.S.	Total Live Births	
			First	Repeat	Total	Expected	Ratio	(p)	Percent			Number	Rate
001	Fernie	86	31	17	48	47.2	1.02		31.6	18	-	152	10.28
002	Cranbrook	159	38	41	79	78.6	1.01		31.2	14	1	253	9.86
003	Kimberley	49	10	8	18	23.0	0.78		24.3	7	-	74	8.77
004	Windermere	59	14	12	26	27.3	0.95		29.5	3	-	88	8.81
005	Creston	86	19	6	25	35.4	0.71		21.9	3	-	114	8.92
006	Kootenay Lake	33	3	-	3	11.2	0.27	+	8.3	-	-	36	9.15
007	Nelson	155	42	19	61	72.4	0.84		26.2	16	1	233	9.30
009	Castlegar	76	19	12	31	34.5	0.90		27.9	4	-	111	8.33
010	Arrow Lakes	28	10	2	12	12.7	0.94		29.3	1	-	41	8.44
011	Trail	99	22	13	35	45.7	0.77		23.8	13	-	147	7.38
012	Grand Forks	40	8	8	16	19.6	0.82		25.4	6	1	63	6.80
013	Kettle Valley	14	4	-	4	6.5	0.61		19.0	3	-	21	5.62
014	Southern Okanagan	82	15	15	30	40.7	0.74		22.9	19	-	131	6.56
015	Penticton	197	58	27	85	99.1	0.86		26.6	37	-	319	7.51
016	Keremeos	23	9	3	12	12.4	0.97		30.0	5	-	40	7.62
017	Princeton	16	4	3	7	8.1	0.87		26.9	3	-	26	5.03
018	Golden	39	17	5	22	21.1	1.04		32.4	7	-	68	9.24
019	Revelstoke	46	10	8	18	21.4	0.84		26.1	5	-	69	8.33
020	Salmon Arm	140	60	35	95	77.7	1.22		38.0	15	-	250	7.21
021	Armstrong - Spallumcheen	51	19	12	31	27.6	1.12		34.8	7	-	89	9.07
022	Vernon	318	103	85	188	170.2	1.10		34.3	42	-	548	8.39
023	Central Okanagan	1,013	289	175	464	506.9	0.92		28.4	155	-	1,632	9.21
024	Kamloops	576	253	143	396	323.0	1.23	*	38.1	68	-	1,040	9.51
025	100 Mile House	81	12	7	19	32.9	0.58	*	17.9	6	-	106	7.13
026	North Thompson	36	10	4	14	17.1	0.82		25.5	5	-	55	12.36
027	Cariboo - Chilcotin	191	47	42	89	96.0	0.93		28.8	29	-	309	11.49
028	Quesnel	150	52	27	79	79.5	0.99		30.9	27	-	256	10.76
029	Lillooet	29	8	7	15	14.3	1.05		32.6	2	-	46	10.20
030	South Cariboo	36	12	11	23	19.3	1.19		37.1	3	-	62	8.25
031	Merritt	81	16	18	34	37.6	0.90		28.1	6	-	121	10.38
032	Hope	46	5	10	15	21.1	0.71		22.1	7	-	68	8.17
033	Chilliwack	611	161	147	308	316.2	0.97		30.3	99	-	1,018	12.22
034	Abbotsford	1,058	255	198	453	537.4	0.84	*	26.2	219	-	1,730	13.04
035	Langley	844	229	147	376	413.7	0.91		28.2	112	-	1,332	10.65
037	Delta	481	169	131	300	267.1	1.12		34.9	79	-	860	8.42
038	Richmond	1,007	344	224	568	542.6	1.05		32.5	172	-	1,747	9.36
040	New Westminster	367	166	68	234	215.9	1.08		33.7	94	-	695	11.10
041	Burnaby	1,335	464	261	725	721.6	1.00		31.2	263	-	2,323	10.74
042	Maple Ridge	501	182	130	312	291.7	1.07		33.2	126	-	939	10.39
043	Coquitlam	1,197	468	238	706	665.3	1.06		33.0	239	-	2,142	10.23
044	North Vancouver	690	267	129	396	374.0	1.06		32.9	118	-	1,204	8.83
045	West Vancouver-Bowen Is.	171	53	43	96	93.5	1.03		31.9	34	-	301	5.82
046	Sunshine Coast	118	39	16	55	61.5	0.89		27.8	25	-	198	6.63
047	Powell River	84	14	13	27	37.3	0.72		22.5	9	-	120	5.89
048	Howe Sound	258	115	59	174	150.0	1.16		36.0	50	1	483	14.56
049	Bella Coola Valley	26	3	-	3	10.3	0.29	+	9.1	4	-	33	10.97
050	Queen Charlotte	25	6	6	12	12.7	0.94		29.3	4	-	41	8.14
051	Snow Country	3	2	-	2	1.6	1.29		40.0	-	-	5	8.87
052	Prince Rupert	110	34	18	52	55.9	0.93		28.9	18	-	180	12.18
053	Upper Skeena	44	13	4	17	20.5	0.83		25.8	5	-	66	11.84
054	Smithers	131	29	33	62	65.5	0.95		29.4	18	-	211	12.92
055	Burns Lake	66	7	11	18	28.6	0.63	*	19.6	8	-	92	11.42
056	Nechako	143	27	33	60	69.0	0.87		27.0	19	-	222	14.46
057	Prince George	714	176	140	316	338.6	0.93		29.0	60	-	1,090	11.12
059	Peace River South	217	59	36	95	106.9	0.89		27.6	32	-	344	12.48
060	Peace River North	387	103	67	170	187.3	0.91		28.2	46	-	603	17.54
061	Greater Victoria	1,052	446	238	684	569.7	1.20	*	37.3	98	-	1,834	8.25
062	Sooke	362	138	94	232	197.2	1.18	*	36.5	41	-	635	9.97
063	Saanich	226	71	56	127	115.5	1.10		34.1	19	-	372	5.73
064	Gulf Islands	68	15	6	21	28.6	0.73		22.8	2	1	92	5.95
065	Cowichan	390	90	62	152	173.0	0.88		27.3	15	-	557	9.77
066	Lake Cowichan	27	9	5	14	13.4	1.05		32.6	2	-	43	6.66
067	Ladysmith	108	24	18	42	49.4	0.85		26.4	9	-	159	8.57
068	Nanaimo	573	153	126	279	286.1	0.98		30.3	69	-	921	9.01
069	Qualicum	153	40	36	76	78.6	0.97		30.0	24	-	253	5.52
070	Alberni	207	57	42	99	104.1	0.95		29.6	29	-	335	10.38
071	Courtenay	344	89	48	137	157.8	0.87		27.0	27	-	508	7.93
072	Campbell River	221	85	45	130	123.0	1.06		32.8	45	-	396	9.42
075	Mission	284	65	58	123	143.2	0.86		26.7	53	1	461	11.04
076	Agassiz - Harrison	65	13	14	27	31.1	0.87		27.0	8	-	100	11.72
077	Summerland	37	10	11	21	22.1	0.95		29.6	13	-	71	5.91
078	Enderby	53	12	6	18	23.9	0.75		23.4	6	-	77	9.70
080	Kitimat	44	13	19	32	25.8	1.24		38.6	7	-	83	7.97
081	Fort Nelson	58	20	10	30	29.5	1.02		31.6	7	-	95	14.77
083	Central Coast	20	1	2	3	7.8	0.39		12.0	2	-	25	16.61
084	Vancouver Island West	5	3	3	6	4.3	1.38		42.9	3	-	14	5.78
085	Vancouver Island North	100	23	16	39	46.6	0.84		26.0	11	-	150	12.04
087	Stikine	3	-	-	-	1.2	-		-	1	-	4	3.93
088	Terrace	167	31	22	53	75.5	0.70	*	21.8	23	-	243	11.78
092	Nisga'a	28	6	1	7	11.2	0.63		19.4	1	-	36	17.91
094	Telegraph Creek	8	2	1	3	3.7	0.80		25.0	1	-	12	16.97
161	Vancouver - City Centre	482	235	67	302	285.5	1.06		32.9	135	-	919	8.25
162	Vancouver - Downtown E.side	288	77	38	115	140.7	0.82	*	25.4	49	1	453	7.85
163	Vancouver - North East	670	242	94	336	350.4	0.96		29.8	122	-	1,128	10.87
164	Vancouver - Westside	648	232	130	362	357.5	1.01		31.5	141	-	1,151	8.71
165	Vancouver - Midtown	585	205	103	308	322.4	0.96		29.7	145	-	1,038	12.08
166	Vancouver - South	729	266	153	419	410.0	1.02		31.7	172	-	1,320	9.86
201	Surrey	2,675	930	676	1,606	1527.0	1.05	*	32.7	635	-	4,916	13.55
202	South Surrey/White Rock	313	105	70	175	167.1	1.05		32.5	50	-	538	6.47
	PROVINCIAL TOTAL	**25,831**	**8,313**	**5,204**	**13,517**	**13517.0**	**1.00**		**31.1**	**4,362**	**7**	**43,517**	**9.93**

Notes for this table follow the map.

FIGURE 30

CESAREAN DELIVERIES OF LIVE BORN INFANTS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 2007



Notes for Table 12

Note: Ratio – observed over the expected cesareans in the specified area. Percent based upon live births in the specified area. Rate per 1,000 population in the specified area. *Statistical testing indicates that observed cesarean births are significantly different from the expected ($p<0.05$, two tailed). +Denotes significance based on less than five births. Other is comprised of spontaneous breech, forceps, and vacuum. Total includes residents with unknown LHA. N.S. - Not Stated.

Note: Ratio - Observed over the expected. Refer to Figure 1 to clarify geographical location of LHAs.

Births – Birth Weight

Birth weight is recognized as a primary indicator of newborn health not only in BC and Canada but worldwide. It is also an important predictor of subsequent health and well being, as well as disability and death, among newborn infants. In BC a baby is weighed (in grams) immediately after birth, and that weight is used as one of the diagnostic indicators of fetal growth.

The following tables show birth weight categorized by other indicators related to birth weight, such as gender, gestational age, and maternal age.

Babies born at term (37 to 41 weeks) and between 2,500 and 4,499 grams have been shown to have the most favourable prospects for good health and Table 13 indicates that 38,471 births or 88.4 percent of all live births in 2007 were in that category. There were 3,272 pre-term births (less than 37 weeks) which accounted for 7.52 percent of all live births.

Table 14 shows the number of live births to residents of BC in 2007 according to maternal age group and infant birth weight category. By far, most of the babies in each age group had healthy weights (from 2,500 to 4,499 grams).

Table 14 shows that mothers in the mid-age categories had the largest proportions of healthy weight babies and the lowest proportions of LBW babies (weighing less than 2,500 grams).

Table 15 displays the number and percent of LBW babies by gender according to the mother's age group. Female babies have a higher rate of LBW (60.37 per 1,000 female live births) than males (54.40 per 1,000 male live births).

Figure 31 graphically shows the pattern of LBW by maternal age groups. Women in the middle age groups had the lowest rates of LBW babies in 2007 with increasing rates in subsequent age groups. Older mothers not only have increased rates of LBW babies but the rate among older mothers has shown an increasing trend since 1986 as indicated in Figure 10.

Table 16 shows the incidence of LBW babies in the period 2002 to 2006 and the year 2007, stratified by the LHA of maternal residence for the whole province. As well as the incidence of such births, the 2002 to 2006 portion of the table shows the LBW rate per 1,000 live births and the ratio of the observed and expected number of LBW births in the LHA.

There were 17 LHAs with ratios that were statistically significant. Of these only 7 were high. The 2007 data show the incidence figures broken down by three categories of gestational age of the newborn, the total number of LBW births, and the rate. In some LHAs the number of LBW babies was quite low in 2007 so the rates should be viewed with caution.

Figure 32 shows BC LHAs displayed in five levels according to the 2002-2006 observed versus expected LBW ratio. High ratios, (Quintile 5, deep red colour) mean that an LHA had quite a high ratio in the years 2002-2006. At the other extreme, the areas shown as dark grey have a relatively low ratio.

TABLE 13
LIVE BIRTHS BY BIRTH WEIGHT, GENDER, AND GESTATIONAL AGE
BRITISH COLUMBIA, 2007

Birth Weight (in Grams)	Gender		Gestational Age (in Weeks)						Total
	Male	Female	<20	20–27	28–36	37–41	42+	N.S.	
<500	10	23	3	30	-	-	-	-	33
500-749	41	27	-	63	5	-	-	-	68
750-999	45	37	-	57	24	1	-	-	82
1,000-1,249	56	48	-	34	70	-	-	-	104
1,250-1,499	76	64	-	3	134	3	-	-	140
1,500-1,749	83	91	-	-	169	5	-	-	174
1,750-1,999	138	142	-	-	252	28	-	-	280
2,000-2,249	274	292	-	-	434	131	1	-	566
2,250-2,499	499	547	-	-	574	472	-	-	1,046
2,500-2,749	931	1,149	-	-	541	1,538	1	-	2,080
2,750-2,999	1,997	2,374	-	-	428	3,942	1	-	4,371
3,000-3,249	3,277	3,797	-	-	267	6,784	23	-	7,074
3,250-3,499	4,211	4,293	-	-	114	8,352	38	-	8,504
3,500-3,749	4,201	3,775	-	-	35	7,888	53	-	7,976
3,750-3,999	3,114	2,358	-	-	20	5,402	50	-	5,472
4,000-4,249	1,955	1,202	-	-	9	3,106	42	-	3,157
4,250-4,499	938	546	-	-	3	1,459	22	-	1,484
4,500-4,749	388	181	-	-	1	557	11	-	569
4,750-4,999	135	68	-	-	1	198	4	-	203
5,000-5,249	47	21	-	-	1	66	1	-	68
5,250-5,499	18	4	-	-	-	21	1	-	22
5,500+	7	3	-	-	-	10	-	-	10
N.S.	22	12	-	-	-	-	-	34	34
TOTAL	**22,463**	**21,054**	**3**	**187**	**3,082**	**39,963**	**248**	**34**	**43,517**

Note: Non-residents are excluded. N.S. – Not stated.

TABLE 14
LIVE BIRTHS BY BIRTH WEIGHT AND AGE OF MOTHER
BRITISH COLUMBIA, 2007

Birth Weight (in Grams)	Age of Mother (in Years)									Total
	<15	15–19	20–24	25–29	30–34	35–39	40–44	45+	N.S.	
<500	-	3	3	7	15	5	-	-	-	33
500-749	-	4	10	25	15	9	5	-	-	68
750-999	-	4	11	22	18	20	5	2	-	82
1,000-1,249	-	3	15	17	36	25	7	1	-	104
1,250-1,499	-	3	13	36	42	32	13	1	-	140
1,500-1,749	-	3	21	48	49	38	14	1	-	174
1,750-1,999	-	12	27	73	95	55	17	1	-	280
2,000-2,249	-	21	69	141	174	115	43	3	-	566
2,250-2,499	1	31	152	314	276	205	60	7	-	1,046
2,500-2,749	1	69	326	559	633	392	91	9	-	2,080
2,750-2,999	-	135	614	1,241	1,402	781	184	14	-	4,371
3,000-3,249	1	242	1,081	1,921	2,193	1,346	289	21	-	7,074
3,250-3,499	-	269	1,242	2,416	2,698	1,577	285	17	-	8,504
3,500-3,749	3	263	1,166	2,237	2,588	1,446	260	13	-	7,976
3,750-3,999	2	196	803	1,519	1,778	986	180	8	-	5,472
4,000-4,249	2	107	495	899	1,010	527	115	2	-	3,157
4,250-4,499	1	58	211	414	460	277	60	3	-	1,484
4,500-4,749	-	22	75	160	193	98	21	-	-	569
4,750-4,999	-	7	40	56	57	38	5	-	-	203
5,000-5,249	-	2	4	16	29	16	1	-	-	68
5,250-5,499	-	-	3	7	7	5	-	-	-	22
5,500+	-	-	2	1	5	1	1	-	-	10
N.S.	-	1	3	11	12	6	1	-	-	34
Low	1	84	321	683	720	504	164	16	-	2,493
Percent	9.09	5.77	5.03	5.63	5.22	6.30	10.02	15.53	-	5.73
Healthy	10	1,339	5,938	11,206	12,762	7,332	1,444	87	-	40,118
Percent	90.91	92.03	92.98	92.31	92.58	91.65	88.21	84.47	-	92.19
High	-	31	124	240	291	158	28	-	-	872
Percent	-	2.13	1.94	1.98	2.11	1.98	1.71	-	-	2.00
TOTAL	**11**	**1,455**	**6,386**	**12,140**	**13,785**	**8,000**	**1,637**	**103**	**-**	**43,517**

Note: LBW <2,500 grams. Healthy birth weight 2,500 to 4,499 grams. High birth weight 4,500+ grams. Percent of age category in birth weight group. Non-residents are excluded. N.S. - Not stated.

TABLE 15
LOW BIRTH WEIGHT LIVE BIRTHS BY AGE OF MOTHER AND GENDER
BRITISH COLUMBIA, 2007

Age of Mother	Male		Female		Total		
	Number	Percent	Number	Percent	Number	Percent	Rate
< 15	-	-	1	0.1	1	-	90.91
15-19	53	4.3	31	2.4	84	3.4	57.73
20-24	162	13.3	159	12.5	321	12.9	50.27
25-29	348	28.5	335	26.4	683	27.4	56.26
30-34	317	25.9	403	31.7	720	28.9	52.23
35-39	246	20.1	258	20.3	504	20.2	63.00
40-44	88	7.2	76	6.0	164	6.6	100.18
45 +	8	0.7	8	0.6	16	0.6	155.34
N.S.	-	-	-	-	-	-	-
TOTAL	**1,222**	**100.0**	**1,271**	**100.0**	**2,493**	**100.0**	**57.29**

Note: Rate per 1,000 live births for the specified age group.
LBW: birth weight less than 2,500 grams.
Total percentage may not add up to 100 due to rounding. Total includes unknown gender.
+ Denotes the number of cases is less than five
Non-residents are excluded. N.S. – Not stated.

FIGURE 31
LOW BIRTH WEIGHT LIVE BIRTHS BY AGE OF MOTHER
BRITISH COLUMBIA, 2007

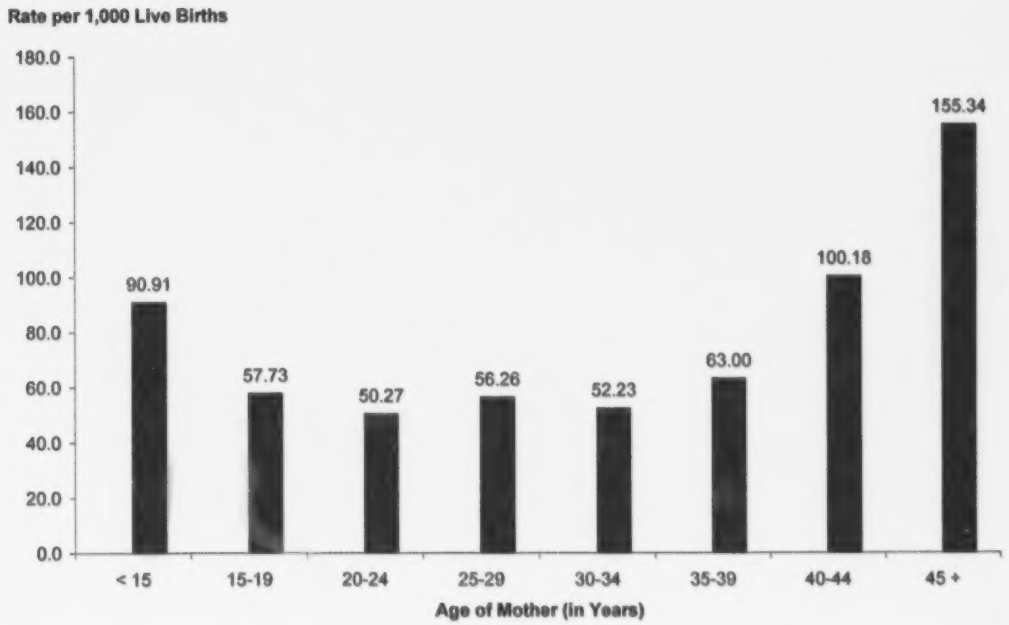


Table 16

LOW BIRTH WEIGHT LIVE BIRTHS BY LOCAL HEALTH AREA AND GESTATIONAL AGE, BRITISH COLUMBIA, 2002–2006 AND 2007

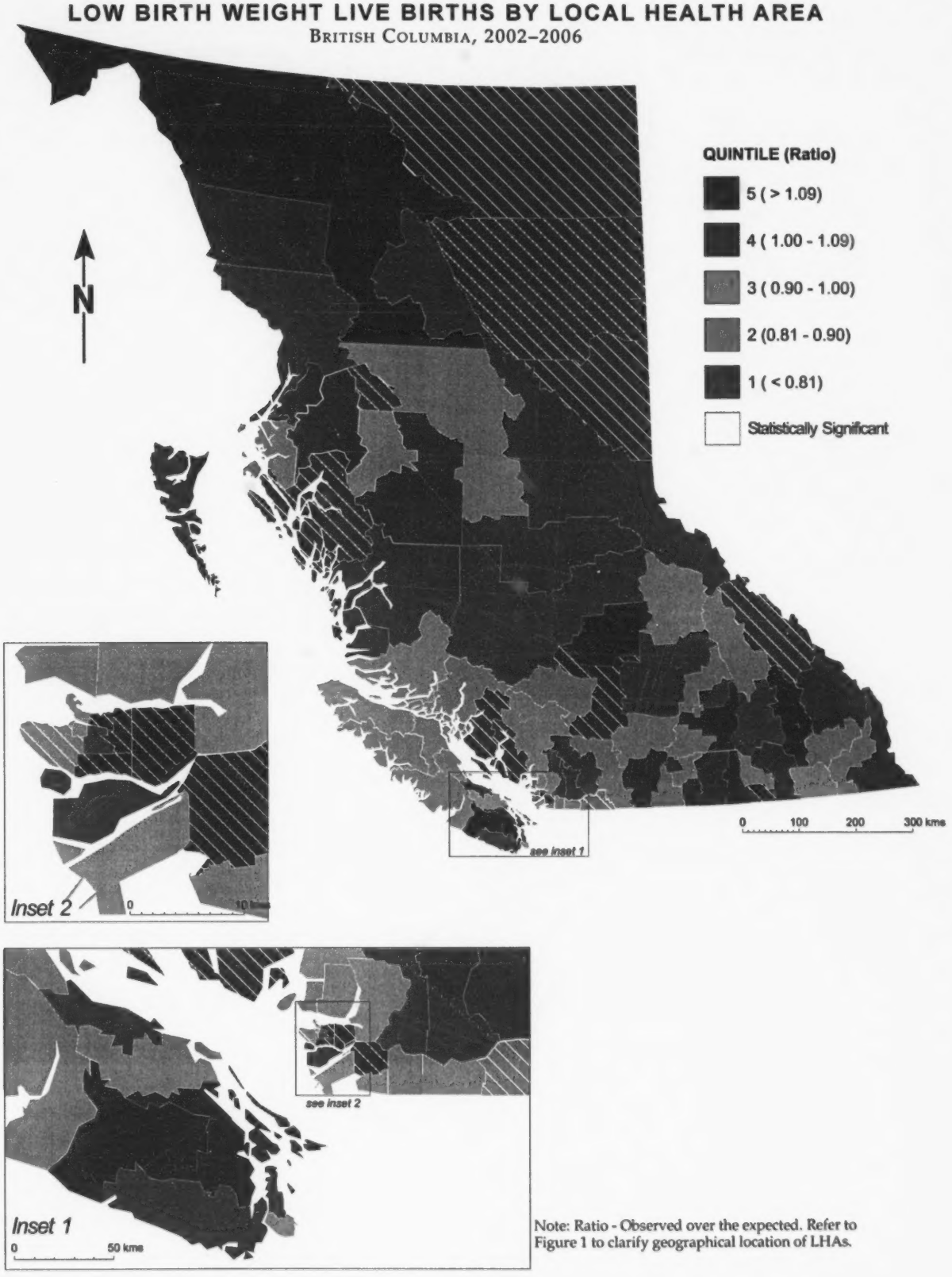
Local Health Area		2002–2006 Low Birth Weight Live Births				2007 Gestational Age (in Weeks)					
		Observed	Ratio	(p)	Rate	<37	37–41	42+	N.S.	Total	Rate
001	Fernie	23	0.70		38.53	4	1	-	-	5	32.89
002	Cranbrook	52	0.85		46.72	11	5	-	-	16	63.24
003	Kimberley	14	0.88		47.95	5	2	-	-	7	94.59
004	Windermere	11	0.59		32.54	4	2	-	-	6	68.18
005	Creston	32	0.99		54.42	6	3	-	-	9	78.95
006	Kootenay Lake	11	1.16		63.22	-	-	-	-	-	-
007	Nelson	47	0.79		43.16	6	6	-	-	12	51.50
009	Castlegar	22	0.91		50.00	2	-	-	-	2	18.02
010	Arrow Lakes	9	1.02		55.90	2	-	-	-	2	48.78
011	Trail	51	1.37	*	75.00	6	1	-	-	7	47.62
012	Grand Forks	21	1.14		62.50	-	1	-	-	1	15.87
013	Kettle Valley	4	0.55		29.85	-	-	-	-	-	-
014	Southern Okanagan	35	1.10		59.93	6	2	-	-	8	61.07
015	Penticton	74	0.92		50.55	12	3	-	-	15	47.02
016	Keremeos	9	0.88		48.39	1	-	-	-	1	25.00
017	Princeton	9	1.38		75.63	4	1	-	-	5	192.31
018	Golden	8	0.44	*	24.17	3	2	-	-	5	73.53
019	Revelstoke	17	0.82		45.09	1	-	-	-	1	14.49
020	Salmon Arm	54	0.84		45.98	13	1	-	-	14	56.00
021	Armstrong - Spallumcheen	18	0.88		48.00	1	2	-	-	3	33.71
022	Vernon	162	1.15		63.16	24	7	-	-	31	56.57
023	Central Okanagan	352	0.95		52.02	61	12	-	-	73	44.73
024	Kamloops	262	1.07		58.72	51	19	1	-	71	68.27
025	100 Mile House	29	1.10		60.17	4	1	-	-	5	47.17
026	North Thompson	12	1.00		54.55	3	-	-	-	3	54.55
027	Cariboo - Chilcotin	82	1.06		57.87	19	6	-	-	25	80.91
028	Quesnel	66	1.06		57.84	13	7	-	-	20	78.13
029	Lillooet	12	0.82		44.78	2	1	-	-	3	65.22
030	South Cariboo	25	1.58	*	86.51	-	1	-	-	1	16.13
031	Merritt	28	0.91		49.82	4	1	-	-	5	41.32
032	Hope	17	0.86		46.96	2	3	-	-	5	73.53
033	Chilliwack	206	0.85	*	46.23	29	10	-	-	39	38.31
034	Abbotsford	408	0.92		50.35	61	14	-	-	75	43.35
035	Langley	304	0.90		49.24	58	17	-	-	75	56.31
037	Delta	242	0.92		50.37	32	12	-	-	44	51.16
038	Richmond	425	1.00		54.70	68	37	-	-	105	60.10
040	New Westminster	199	1.13		62.03	44	9	-	-	53	76.26
041	Burnaby	635	1.11	*	60.60	88	34	-	-	122	52.52
042	Maple Ridge	246	1.01		55.17	47	23	-	-	70	74.55
043	Coquitlam	548	0.98		53.84	104	40	-	-	144	67.23
044	North Vancouver	325	0.95		51.76	45	15	-	-	60	49.83
045	West Vancouver-Bowen Is.	68	0.82		45.12	16	4	-	-	20	66.45
046	Sunshine Coast	24	0.48	*	26.23	11	2	-	-	13	65.66
047	Powell River	23	0.59	*	32.49	9	2	-	-	11	91.67
048	Howe Sound	96	0.90		49.31	15	10	-	-	25	51.76
049	Bella Coola Valley	15	1.04		57.03	4	-	-	-	4	121.21
050	Queen Charlotte	16	1.02		55.75	-	1	-	-	1	24.39
051	Snow Country	2	1.04		57.14	-	1	-	-	1	200.00
052	Prince Rupert	45	0.88		48.34	4	1	-	-	5	27.78
053	Upper Skeena	10	0.53	*	28.99	4	-	-	-	4	60.61
054	Smithers	57	0.93		51.08	7	-	-	-	7	33.18
055	Burns Lake	16	0.68		37.38	3	1	-	-	4	43.48
056	Nechako	58	0.96		52.58	7	3	-	-	10	45.05
057	Prince George	292	1.02		55.60	50	16	-	-	66	60.55
059	Peace River South	49	0.63	*	34.46	7	6	-	-	13	37.79
060	Peace River North	111	0.80	*	43.55	14	9	-	-	23	38.14
061	Greater Victoria	473	1.00		54.44	77	21	-	-	98	53.44
062	Sooke	165	1.02		55.88	22	7	-	-	29	45.67
063	Saanich	116	1.04		56.81	11	2	-	-	13	34.95
064	Gulf Islands	18	0.77		42.35	1	2	-	-	3	32.61
065	Cowichan	151	1.14		62.35	32	14	-	-	46	82.59
066	Lake Cowichan	13	1.21		65.99	-	1	-	-	1	23.26
067	Ladysmith	49	1.23		67.12	5	2	-	-	7	44.03
068	Nanaimo	204	0.92		50.20	43	7	-	-	50	54.29
069	Qualicum	63	1.01		55.41	10	1	-	-	11	43.48
070	Alberni	68	0.82		44.77	15	6	-	-	21	62.69
071	Courtenay	110	0.87		47.78	25	5	-	-	30	59.06
072	Campbell River	87	0.89		48.79	18	8	-	-	26	65.66
075	Mission	119	1.02		55.66	12	6	-	-	18	39.05
076	Agassiz - Harrison	27	1.09		59.73	8	-	-	-	8	80.00
077	Summerland	13	0.66		36.31	2	-	-	-	2	28.17
078	Enderby	17	1.01		55.37	-	2	-	-	2	25.97
080	Kitimat	16	0.61	*	33.13	2	-	-	-	2	24.10
081	Fort Nelson	16	0.57	*	31.01	2	-	-	-	2	21.05
083	Central Coast	8	1.04		56.74	1	-	-	-	1	40.00
084	Vancouver Island West	6	0.88		48.00	-	-	-	-	-	-
085	Vancouver Island North	42	0.98		53.78	6	4	-	-	10	66.67
087	Stikine	2	1.35		74.07	-	-	-	-	-	-
088	Terrace	54	0.80		43.55	6	-	-	-	6	24.69
092	Nisga'a	3	0.38		20.83	2	-	-	-	2	55.56
094	Telegraph Creek	1	0.48		25.00	-	-	-	-	-	-
161	Vancouver - City Centre	222	0.99		53.90	24	13	-	-	37	40.26
162	Vancouver - Downtown E.side	164	1.30	*	71.08	18	3	-	-	21	46.36
163	Vancouver - North East	353	1.18	*	64.31	68	18	-	-	86	76.24
164	Vancouver - Westside	268	0.87	*	47.86	48	14	-	-	62	53.87
165	Vancouver - Midtown	295	1.09		59.48	50	22	-	-	72	69.36
166	Vancouver - South	415	1.18	*	64.66	73	30	-	-	103	78.03
201	Surrey	1,418	1.16	*	63.22	236	87	-	-	323	65.70
202	South Surrey/White Rock	120	0.84		45.84	36	7	-	-	43	79.93
	PROVINCIAL TOTAL	**11,097**	**1.00**		**54.70**	**1,852**	**640**	**1**	**-**	**2,493**	**57.29**

Note: Low Birth Weight – birth weight less than 2,500 grams. Ratio – observed over the expected low birth weight live births. * Statistical testing indicates that observed low birth weight live births are significantly different from the expected ($p<0.05$, two tailed). Rate per 1,000 live births in the specified area. Total includes residents with unknown LHA. N.S. - Not Stated.

FIGURE 32

LOW BIRTH WEIGHT LIVE BIRTHS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 2002–2006



Note: Ratio - Observed over the expected. Refer to Figure 1 to clarify geographical location of LHAs.

Births – Maternal Complications and Perinatal Conditions

Both maternal complications and perinatal complications can be used as health status indicators. Only diagnoses affecting pregnancy, labour, or delivery were selected for the maternal complications part of this report. Perinatal complications consist of diagnoses affecting the baby shortly before, during, or after birth.

The maternal complications shown in Table 17 are limited to those diagnoses that affected pregnancy, labour, or delivery. Note that an unlimited number of complications can be noted for each birth, so the total number of maternal complications can be greater than the number of live births with maternal complications.

Assisted or Surgical Delivery and *Maternal Abnormalities of the Pelvic Organs* were the two most frequent diagnostic categories of maternal complications in 2007 and the previous five years. The proportions of age group births that had pelvic organ abnormalities (including conditions such as cervical incompetence as well as scarring from surgeries such as previous cesarean sections) were observed more frequently in older mothers. Births complicated by *Maternal Abnormality of Pelvic Organs* made up 0.6 percent of births to mothers aged under 20 years compared to 6.8 percent of births for mothers 40 years and over. The proportions of age group births that had at least one complication are shown along the bottom of the table.

Elderly primigravida (ICD-10 code Z35.5) refers to women aged 35 or older who are experiencing their first pregnancy. This condition has always been recorded; however, the ICD-9 code (659.5) was included with other complications of labour and delivery, while ICD-10 puts elderly primigravida in the chapter with factors influencing health status and contact with health services. Elderly primigravida comprised 5.2 percent of all maternal complications in 2002-2006 and 5.5 percent in 2007 as shown in Table 17.

Table 18 shows the incidence of live births with maternal complications by LHA for the period 2002-2006 and for the year 2007. The observed births columns show the number of live births with complications stratified by maternal LHA of residence. The ratios indicate the number of observed births divided by the number that would be expected if the LHA had the provincial rates and (p) indicates those LHAs where the observed number was significantly different from the expected.

In 2007 there were statistically significant low ratios in 12 LHAs; 7 LHAs had high ratios that were statistically significant. In the 2002 to 2006 period, 24 LHAs had low ratios that were statistically significant and 14 LHAs had high ratios that were statistically significant.

The map in Figure 33 shows the LHAs identified in their quintile ranks by their 2002-2006 ratios of observed births with maternal complications versus the expected number of births with such conditions. LHAs with the highest ratios are coloured deep red; those with the lowest ratios are dark grey.

The conditions listed in Table 19 consist of diagnoses affecting the baby shortly before, during, or after birth. The table shows the number and percent of all perinatal conditions in each condition category for 2002-2006 and 2007. The 2007 portion of the table also shows the conditions by maternal age group. Again, an unlimited number of complications can be noted for each birth, so the total number of perinatal conditions at the bottom of the table may exceed the number of live births with at least one perinatal condition.

Intrauterine hypoxia and birth asphyxia accounted for most of the perinatal conditions in both time periods (45.2 percent in 2002-2006 and 41.6 percent in 2007). Conditions related to short gestation and those related to long gestation or high birth weight together accounted for 39.6 percent of the conditions in 2007 and 32.0 percent in the 2002-2006 period.

Table 20 shows the incidence of live births with perinatal conditions, by the mother's LHA of residence for the period 2002-2006 and for the year 2007. In 2007, there were 30 LHAs where the observed number of perinatal complications was significantly different from the expected number, and in 21 of these, the observed number was significantly higher.

Figure 34 map shows the LHAs identified in their quintile ranks by their 2002-2006 ratios of observed births with perinatal complications to the expected number of births with such conditions. LHAs with the highest ratios are coloured deep red; those with the lowest ratios are dark grey.

TABLE 17
MATERNAL COMPLICATIONS OF PREGNANCY AND DELIVERY IN LIVE BIRTHS BY AGE OF MOTHER
BRITISH COLUMBIA, 2002–2006 AND 2007

Maternal Complications	ICD-10 Code(s)	2002–2006		2007						
				Age of Mother (in Years)						
		Total	Percent	<20	20–29	30–39	40+	N.S.	Total	Percent
Hypertension/hypertensive disorders in pregnancy	O10-O11, O13, O16	2,549	1.8	14	203	265	34	-	516	1.7
Edema and proteinuria without hypertension	O12	39	0.0	-	2	3	-	-	5	0.0
Pre-eclampsia/eclampsia	O14-O15	890	0.6	7	79	69	8	-	163	0.5
Hemorrhage in early pregnancy	O20	4	0.0	-	-	-	-	-	-	0.0
Hyperemesis gravidarum	O21	62	0.0	-	4	5	-	-	9	0.0
Other maternal disorders predominantly related to pregnancy	O22-O23, O25-O29	1,699	1.2	14	129	152	10	-	305	1.0
Diabetes in pregnancy	O24	2,315	1.6	3	138	279	44	-	464	1.5
Multiple gestation and related complications	O30-O31	5,968	4.2	20	432	767	128	-	1,347	4.4
Fetal malpresentation	O32	6,799	4.8	43	528	679	55	-	1,305	4.2
Disproportion	O33	469	0.3	3	47	55	4	-	109	0.4
Maternal abnormality of pelvic organs	O34	22,843	16.1	32	1,617	3,346	367	-	5,362	17.4
Disorders of amniotic fluid and membranes	O40-O42	4,040	2.9	32	365	416	42	-	855	2.8
Placental disorders	O43-O45, O73	2,150	1.5	6	160	243	29	-	438	1.4
Antepartum hemorrhage	O46	368	0.3	-	23	35	5	-	63	0.2
Prolonged pregnancy	O48	1,538	1.1	6	100	116	10	-	232	0.8
Preterm labour and delivery	O60	8,299	5.9	89	840	814	89	-	1,832	6.0
Abnormalities of forces of labour	O62-O63	5,808	4.1	67	600	598	44	-	1,309	4.3
Obstructed labour	O64-O66	11,353	8.0	102	1051	1111	61	-	2,325	7.6
Intrapartum hemorrhage	O67	-	-	-	-	-	-	-	-	-
Evidence of fetal distress	O68	8,290	5.9	59	705	880	79	-	1,723	5.6
Cord complications	O69	2,420	1.7	16	225	217	13	-	471	1.5
Obstetrical trauma	O71-O71	1,427	1.0	18	138	144	8	-	308	1.0
Postpartum hemorrhage	O72	1,914	1.4	26	182	188	16	-	412	1.3
Assisted or surgical delivery - no cause given[1]	O81-O82	30,383	21.5	150	2,730	3,209	315	-	6,404	20.8
Maternal and puerperal infections	O85-O86, O98, A34	194	0.1	6	26	26	4	-	62	0.2
Other puerperal complications	O87-O92	65	0.0	1	5	4	1	-	11	0.0
Maternal noninfectious diseases complicating the pregnant state	O99	1,987	1.4	12	193	229	22	-	456	1.5
Elderly primigravida	Z355	7,366	5.2	-	-	1,467	237	-	1,704	5.5
Maternal drug use	O355	419	0.3	3	52	46	2		103	0.3
Other maternal complications	O00-O08, O350-O353, O356-O36, O47, O61, O74-O75, O95-O97	9,953	7.0	95	1,045	1,195	126	-	2,461	8.0
Total maternal complications		**141,611**	**100.0**	**824**	**11,619**	**16,558**	**1,753**	**-**	**30,754**	**100.0**
Live births with the above maternal complications	**- Number**	**105,373**		**608**	**8,925**	**11,997**	**1,140**	**-**	**22,672**	
	- Percent(*)	**51.9**		**41.5**	**48.2**	**55.1**	**65.5**		**52.1**	

Note: Percent based upon maternal complications. Percent (*) based upon live births for the specified maternal age group.
[1]Where no other complication code is found. Total percentage may not add up to 100 due to rounding.
N.S. - Not Stated. Non-residents are excluded.

Vital Statistics Information Box

Top 25 Baby Names in 2007

Each year the British Columbia Vital Statistics Agency produces a list of the most chosen baby names. The table below provides the top 25 names. Alternate spellings of names that sound alike (such as Catherine, Katherine, and Katharine) are not combined. The complete 2007 list, as well as lists for several previous years can be found at http://www.vs.gov.bc.ca/babynames/index.html. In 2007, 628 boys' names and 706 girls' names were chosen for ve or more newborns.

	Baby Boys		Baby Girls	
Rank	Name	Number	Name	Number
1	Ethan	291	Ava	236
2	Jacob	253	Emily	229
3	Noah	231	Sophia	213
4	Liam	211	Olivia	211
5	Matthew	206	Emma	200
6	Joshua	205	Hannah	186
7	Logan	201	Ella	179
8	Owen	199	Isabella	168
9	Ryan	191	Sarah	150
10	Lucas	183	Chloe	131
11	Alexander	181	Madison	130
12	Benjamin	181	Sophie	129
13	Nathan	181	Lily	118
14	Daniel	180	Grace	116
15	Jack	173	Abigail	112
16	William	166	Brooklyn	93
17	James	159	Taylor	90
18	Nicholas	154	Julia	89
19	Jayden	147	Samantha	89
20	Tyler	139	Claire	88
21	Aiden	138	Elizabeth	87
22	Dylan	135	Kaitlyn	86
23	Samuel	135	Hailey	85
24	Evan	134	Maya	85
25	Gavin	120	Jessica	80

Table 18

MATERNAL COMPLICATIONS OF PREGNANCY AND DELIVERY IN LIVE BIRTHS BY LOCAL HEALTH AREA, BRITISH COLUMBIA, 2002–2006 AND 2007

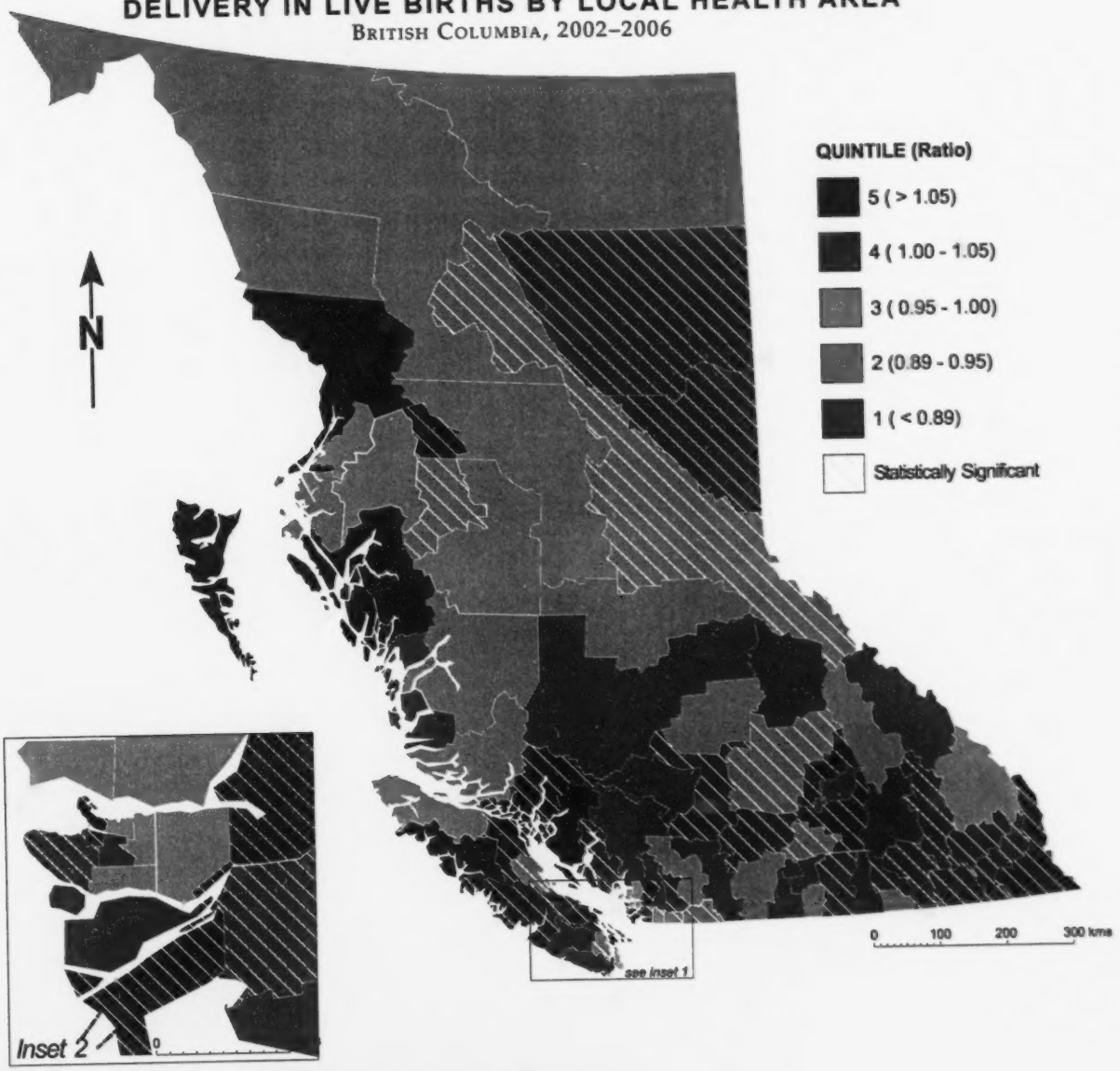
Local Health Area		2002–2006 Observed Births	Ratio	(p)	Percent	Total Live Births	2007 Observed Births	Expected Births	Ratio	(p)	Percent	Total Live Births
001	Fernie	363	1.17	*	60.8	597	78	79.2	0.98		51.3	152
002	Cranbrook	499	0.86	*	44.8	1,113	100	131.8	0.76	*	39.5	253
003	Kimberley	125	0.82	*	42.8	292	36	38.6	0.93		48.6	74
004	Windermere	173	0.99		51.2	338	45	45.8	0.98		51.1	88
005	Creston	224	0.73	*	38.1	588	46	59.4	0.77		40.4	114
006	Kootenay Lake	68	0.75	*	39.1	174	8	18.8	0.43	*	22.2	36
007	Nelson	395	0.70	*	36.3	1,089	94	121.4	0.77	*	40.3	233
009	Castlegar	198	0.87	*	45.0	440	42	57.8	0.73	*	37.8	111
010	Arrow Lakes	70	0.84		43.5	161	21	21.4	0.98		51.2	41
011	Trail	326	0.92		47.9	680	67	76.6	0.87		45.6	147
012	Grand Forks	152	0.87		45.2	336	26	32.8	0.79		41.3	63
013	Kettle Valley	44	0.63	*	32.8	134	8	10.9	0.73		38.1	21
014	Southern Okanagan	289	0.95		49.5	584	67	68.2	0.98		51.1	131
015	Penticton	780	1.03		53.3	1,464	181	166.2	1.09		56.7	319
016	Keremeos	98	1.01		52.7	186	21	20.8	1.01		52.5	40
017	Princeton	55	0.89		46.2	119	13	13.5	0.96		50.0	26
018	Golden	179	1.04		54.1	331	40	35.4	1.13		58.8	68
019	Revelstoke	183	0.93		48.5	377	32	35.9	0.89		46.4	69
020	Salmon Arm	689	1.13	*	58.6	1,175	162	130.2	1.24	*	64.8	250
021	Armstrong - Spallumcheen	201	1.03		53.6	375	48	46.4	1.04		53.9	89
022	Vernon	1,405	1.05	*	54.8	2,565	313	285.5	1.10		57.1	548
023	Central Okanagan	3,319	0.94	*	49.1	6,766	810	850.3	0.95		49.6	1,632
024	Kamloops	2,182	0.94	*	48.9	4,462	556	541.8	1.03		53.5	1,040
025	100 Mile House	233	0.93		48.3	482	35	55.2	0.63	*	33.0	106
026	North Thompson	101	0.88		45.9	220	24	28.7	0.84		43.6	55
027	Cariboo - Chilcotin	766	1.04		54.1	1,417	156	161.0	0.97		50.5	309
028	Quesnel	553	0.93		48.5	1,141	134	133.4	1.00		52.3	256
029	Lillooet	141	1.01		52.6	268	26	24.0	1.08		56.5	46
030	South Cariboo	123	0.82	*	42.6	289	31	32.3	0.96		50.0	62
031	Merritt	250	0.86	*	44.5	562	51	63.0	0.81		42.1	121
032	Hope	194	1.03		53.6	362	32	35.4	0.90		47.1	68
033	Chilliwack	2,184	0.94	*	49.0	4,456	511	530.4	0.96		50.2	1,018
034	Abbotsford	3,801	0.90	*	46.9	8,103	790	901.3	0.88	*	45.7	1,730
035	Langley	3,053	0.95	*	49.4	6,174	634	694.0	0.91	*	47.6	1,332
037	Delta	2,671	1.07	*	55.6	4,804	441	448.1	0.98		51.3	860
038	Richmond	4,102	1.02		52.8	7,770	868	910.2	0.95		49.7	1,747
040	New Westminster	1,780	1.07	*	55.5	3,208	418	362.1	1.15	*	60.1	695
041	Burnaby	5,395	0.99		51.5	10,478	1,218	1,210.3	1.01		52.4	2,323
042	Maple Ridge	2,361	1.02		52.9	4,459	532	489.2	1.09		56.7	939
043	Coquitlam	5,827	1.10	*	57.3	10,178	1,272	1,116.0	1.14	*	59.4	2,142
044	North Vancouver	3,221	0.99		51.3	6,279	646	627.3	1.03		53.7	1,204
045	West Vancouver-Bowen Is.	756	0.97		50.2	1,507	164	156.8	1.05		54.5	301
046	Sunshine Coast	409	0.86	*	44.7	915	117	103.2	1.13		59.1	198
047	Powell River	387	1.05		54.7	708	59	62.5	0.94		49.2	120
048	Howe Sound	1,064	1.05		54.6	1,947	280	251.6	1.11		58.0	483
049	Bella Coola Valley	128	0.94		48.7	263	15	17.2	0.87		45.5	33
050	Queen Charlotte	166	1.11		57.8	287	20	21.4	0.94		48.8	41
051	Snow Country	20	1.10		57.1	35	3	2.6	1.15		60.0	5
052	Prince Rupert	457	0.95		49.1	931	84	93.8	0.90		46.7	180
053	Upper Skeena	213	1.19	*	61.7	345	35	34.4	1.02		53.0	66
054	Smithers	529	0.91	*	47.4	1,116	102	109.9	0.93		48.3	211
055	Burns Lake	218	0.98		50.9	428	38	47.9	0.79		41.3	92
056	Nechako	557	0.97		50.5	1,103	118	115.7	1.02		53.2	222
057	Prince George	2,507	0.92	*	47.7	5,252	473	567.9	0.83	*	43.4	1,090
059	Peace River South	576	0.78	*	40.5	1,422	140	179.2	0.78	*	40.7	344
060	Peace River North	1,043	0.79	*	40.9	2,549	240	314.2	0.76	*	39.8	603
061	Greater Victoria	4,482	0.99		51.6	8,688	999	955.5	1.05		54.5	1,834
062	Sooke	1,600	1.04		54.2	2,953	345	330.8	1.04		54.3	635
063	Saanich	988	0.93	*	48.4	2,042	188	193.8	0.97		50.5	372
064	Gulf Islands	170	0.77	*	40.0	425	32	47.9	0.67	*	34.8	92
065	Cowichan	1,123	0.89	*	46.4	2,422	249	290.2	0.86	*	44.7	557
066	Lake Cowichan	91	0.89		46.2	197	22	22.4	0.98		51.2	43
067	Ladysmith	412	1.09		56.4	730	80	82.8	0.97		50.3	159
068	Nanaimo	2,546	1.21	*	62.6	4,064	559	479.8	1.16	*	60.7	921
069	Qualicum	701	1.19	*	61.7	1,137	149	131.8	1.13		58.9	253
070	Alberni	887	1.12	*	58.4	1,519	222	174.5	1.27	*	66.3	335
071	Courtenay	1,123	0.94	*	48.8	2,302	255	264.7	0.96		50.2	508
072	Campbell River	1,050	1.13	*	58.9	1,783	245	206.3	1.19	*	61.9	396
075	Mission	980	0.88	*	45.8	2,138	220	240.2	0.92		47.7	461
076	Agassiz - Harrison	215	0.92		47.6	452	47	52.1	0.90		47.0	100
077	Summerland	188	1.01		52.5	358	38	37.0	1.03		53.5	71
078	Enderby	160	1.00		52.1	307	37	40.1	0.92		48.1	77
080	Kitimat	264	1.05		54.7	483	44	43.2	1.02		53.0	83
081	Fort Nelson	265	0.99		51.4	516	38	49.5	0.77		40.0	95
083	Central Coast	75	1.02		53.2	141	12	13.0	0.92		48.0	25
084	Vancouver Island West	69	1.06		55.2	125	12	7.3	1.65		85.7	14
085	Vancouver Island North	380	0.94		48.7	781	78	78.1	1.00		52.0	150
087	Stikine	14	1.00		51.9	27	2	2.1	0.96		50.0	4
088	Terrace	636	0.99		51.3	1,240	116	126.6	0.92		47.7	243
092	Nisga'a	74	0.99		51.4	144	21	18.8	1.12		58.3	36
094	Telegraph Creek	20	0.96		50.0	40	6	6.3	0.96		50.0	12
161	Vancouver - City Centre	2,437	1.14	*	59.2	4,119	553	478.8	1.15	*	60.2	919
162	Vancouver - Downtown E.side	1,191	0.99		51.6	2,308	226	236.0	0.96		49.9	453
163	Vancouver - North East	2,773	0.97		50.5	5,489	564	587.7	0.96		50.0	1,128
164	Vancouver - Westside	3,058	1.05	*	54.6	5,600	636	599.7	1.06		55.3	1,151
165	Vancouver - Midtown	2,596	1.01		52.3	4,960	543	540.8	1.00		52.3	1,038
166	Vancouver - South	3,298	0.99		51.4	6,418	691	687.7	1.00		52.3	1,320
201	Surrey	12,236	1.05	*	54.5	22,431	2,630	2,561.2	1.03		53.5	4,916
202	South Surrey/White Rock	1,417	1.04		54.1	2,618	273	280.3	0.97		50.7	538
	PROVINCIAL TOTAL	**105,373**	**1.00**		**51.9**	**202,871**	**22,672**	**22,672.0**	**1.00**		**52.1**	**43,517**

Note: *Statistical testing indicates that the observed number of births with maternal complications is signficantly different from the expected (p<0.05, two tailed). Ratio - observed over expected. Percent of observed births is based on total live births. Total includes residents with unknown LHA. Non-residents are excluded.

FIGURE 33

MATERNAL COMPLICATIONS OF PREGNANCY AND DELIVERY IN LIVE BIRTHS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 2002–2006



Note: Ratio - Observed over the expected. Refer to Figure 1 to clarify geographical location of LHAs.

TABLE 19
PERINATAL COMPLICATIONS IN LIVE BIRTHS BY AGE OF MOTHER
BRITISH COLUMBIA, 2002–2006 AND 2007

Perinatal Complications	ICD-10 Code	2002–2006		2007						
				Age of Mother (in Years)						
		Total	Percent	<20	20–29	30–39	40+	N.S.	Total	Percent
Fetus/newborn affected by maternal conditions that may be unrelated to present pregnancy	P00	37	-	1	2	1	-	-	4	-
Complications of pregnancy, labour and delivery	P01, P03	12,021	13.5	62	885	1,226	162	-	2,335	12.7
Fetus/newborn affected by complications of placenta, cord and membranes	P02	3,497	3.9	14	208	228	19	-	469	2.5
Fetus affected by noxious influences transmitted via placenta (or breast milk)	P04	14	0.0	-	5	5	1	-	11	-
Slow fetal growth and malnutrition	P05	3,324	3.7	17	153	166	22	-	358	1.9
Perinatal disorders related to short gestation	P072, P073	14,609	16.4	124	1,256	1,555	211	-	3,146	17.1
Disorders related to long gestation or high birth weight	P08	13,913	15.6	147	1,727	2,111	167	-	4,152	22.5
Perinatal birth trauma	P10-P15	264	0.3	3	28	28	3	-	62	0.3
Intrauterine hypoxia and birth asphyxia	P20-P21	40,346	45.2	352	3,523	3,496	291	-	7,662	41.6
Respiratory conditions of fetus and newborn	P22-P28	634	0.7	3	42	39	1	-	85	0.5
Cardiovascular disorders originating in the perinatal period	P29	-	-	-	-	-	-	-	-	-
Infections specific to the perinatal period	P35-P39	44	-	-	1	1	-	-	2	-
Fetal and neonatal hemorrhage	P50-P52, P54	117	0.1	1	8	10	-	-	19	0.1
Perinatal jaundice/other hematological disorders	P53, P55-P61	40	-	2	3	5	1	-	11	0.1
Perinatal endocrine and metabolic disorders	P70-P74	32	-	1	2	3	-	-	6	-
Digestive system disorders of fetus and newborn	P76-P78	4	-	-	1	-	-	-	1	-
Perinatal conditions of the integument and of temperature regulation	P80-P83	121	0.1	-	19	8	1	-	28	0.2
Other disorders originating in the perinatal period	P90-P96	203	0.2	3	34	41	1	-	79	0.4
All Perinatal Complications		**89,220**	**100.0**	**730**	**7,897**	**8,923**	**880**	**-**	**18,430**	**100.0**
Live births with the above perinatal complications	**- Number**	**69,283**		**575**	**6,340**	**7,064**	**668**	**-**	**14,647**	
	- Percent(*)	**34.2**		**39.2**	**34.2**	**32.4**	**38.4**		**33.7**	

Note: Percent based upon perinatal complications. Percent (*) based upon live births for the maternal age group. Total percentage may not add up to 100 due to rounding. N.S. - Not stated. Non-residents are excluded.

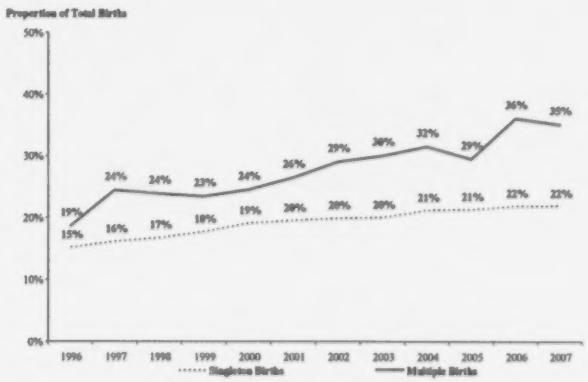
Vital Statistics Information Box

Birth and Older Mothers in British Columbia 1996 - 2007

Older mothers, those aged 35 and over have increased their share of the total births to women in BC. Since 1996, the share of singleton births attributable to older mothers has increased by nearly 50 percent and the share of multiple births attributable to older mothers has nearly doubled. More of these births are via cesarean section, however, the proportion of these births considered to be Low Birth Weight has remained relatively stable.

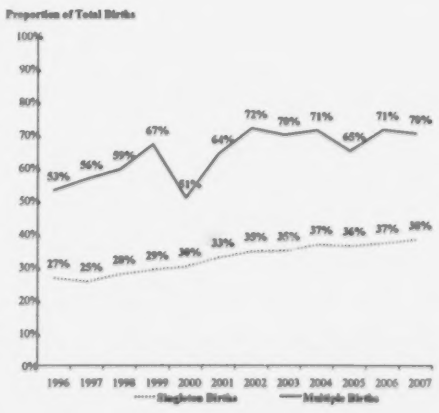
PROPORTION OF SINGLETON AND MULTIPLE BIRTHS TO MOTHERS AGED 35 AND OLDER

British Columbia, 1996 - 2007



PROPORTION OF SINGLETON AND MULTIPLE BIRTHS TO MOTHERS AGED 35 AND OLDER BIRTHED VIA CAESAREAN SECTION

British Columbia, 1996 - 2007



PROPORTION OF SINGLETON AND MULTIPLE BIRTHS TO MOTHERS AGED 35 AND OLDER WITH LOW BIRTH WEIGHT (<2500 GRAMS)

British Columbia, 1996 - 2007

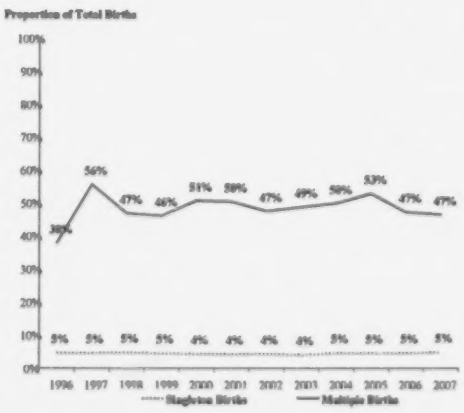


Table 20

PERINATAL COMPLICATIONS IN LIVE BIRTHS BY LOCAL HEALTH AREA, BRITISH COLUMBIA, 2002–2006 AND 2007

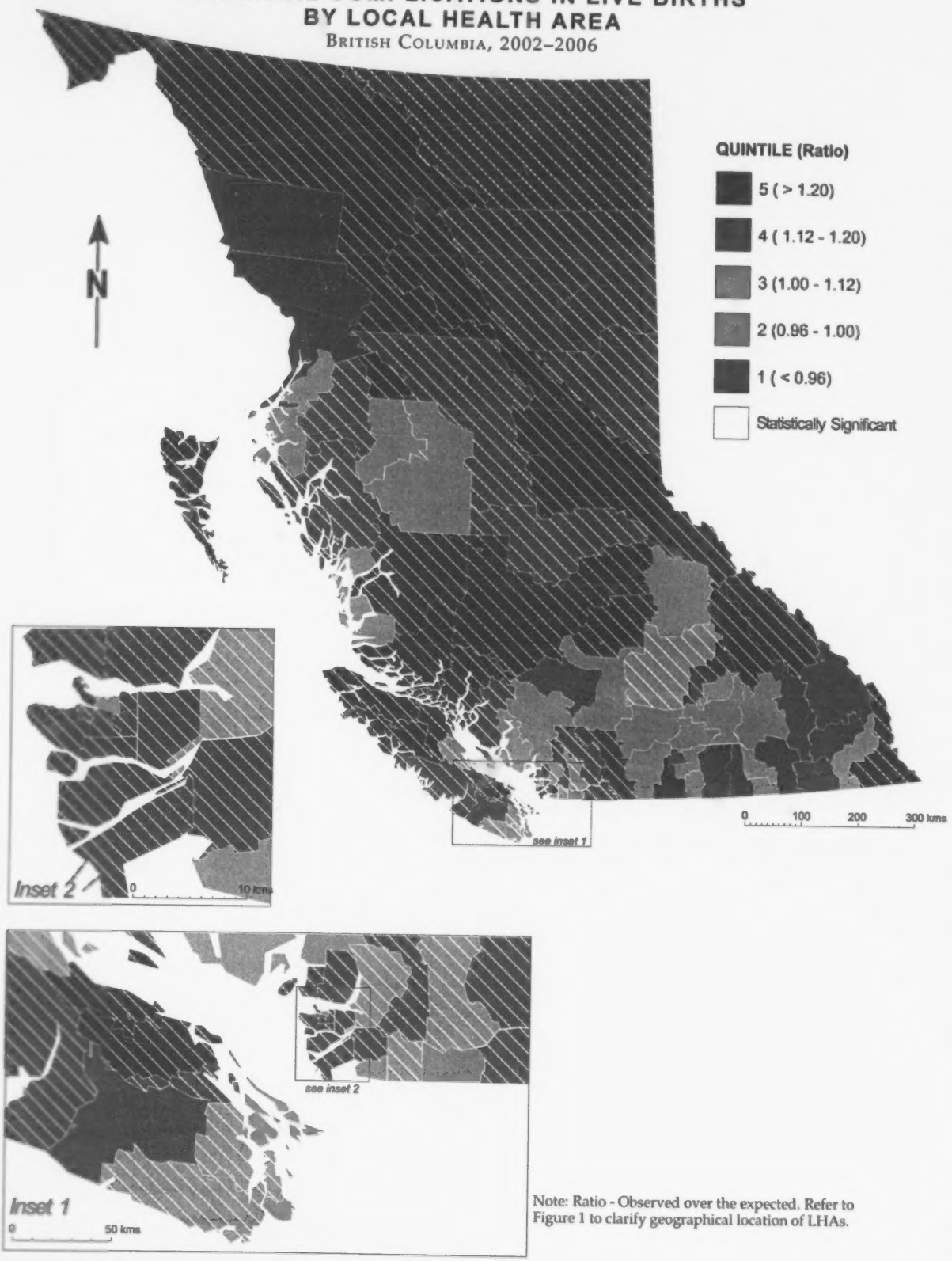
Local Health Area		2002–2006 Observed Births	Ratio	(p)	Percent	Total Live Births	2007 Observed Births	Expected Births	Ratio	(p)	Percent	Total Live Births
001	Fernie	260	1.26	*	43.8	597	49	51.2	0.96		32.2	152
002	Cranbrook	398	1.05		35.8	1,113	83	85.2	0.97		32.8	253
003	Kimberley	114	1.14		39.0	292	30	24.9	1.20		40.5	74
004	Windermere	132	1.14		39.1	338	33	29.6	1.11		37.5	88
005	Creston	226	1.13		38.4	588	39	38.4	1.02		34.2	114
006	Kootenay Lake	70	1.18		40.2	174	6	12.1	0.50		16.7	36
007	Nelson	354	0.95		32.5	1,089	79	78.4	1.01		33.9	233
009	Castlegar	165	1.10		37.5	440	43	37.4	1.15		38.7	111
010	Arrow Lakes	56	1.02		34.8	161	16	13.8	1.16		39.0	41
011	Trail	260	1.12		38.2	680	52	49.5	1.05		35.4	147
012	Grand Forks	108	0.94		32.1	336	17	21.2	0.80		27.0	63
013	Kettle Valley	33	0.72		24.6	134	4	7.1	0.57		19.0	21
014	Southern Okanagan	193	0.97		33.0	584	35	44.1	0.79		26.7	131
015	Penticton	521	1.04		35.6	1,464	129	107.4	1.20	*	40.4	319
016	Keremeos	77	1.21		41.4	186	13	13.5	0.97		32.5	40
017	Princeton	40	0.98		33.6	119	16	8.8	1.83	*	61.5	26
018	Golden	141	1.25	*	42.6	331	24	22.9	1.05		35.3	68
019	Revelstoke	157	1.22	*	41.6	377	37	23.2	1.59	*	53.6	69
020	Salmon Arm	482	1.20	*	41.0	1,175	99	84.1	1.18		39.6	250
021	Armstrong - Spallumcheen	134	1.05		35.7	375	31	30.0	1.03		34.8	89
022	Vernon	915	1.04		35.7	2,565	212	184.4	1.15	*	38.7	548
023	Central Okanagan	2,308	1.00		34.1	6,766	535	549.3	0.97		32.8	1,632
024	Kamloops	1,618	1.06	*	36.3	4,462	370	350.0	1.06		35.6	1,040
025	100 Mile House	198	1.20	*	41.1	482	49	35.7	1.37	*	46.2	106
026	North Thompson	76	1.01		34.5	220	25	18.5	1.35		45.5	55
027	Cariboo - Chilcotin	662	1.37	*	46.7	1,417	149	104.0	1.43	*	48.2	309
028	Quesnel	451	1.16	*	39.5	1,141	102	86.2	1.18		39.8	256
029	Lillooet	109	1.19		40.7	268	19	15.5	1.23		41.3	46
030	South Cariboo	102	1.03		35.3	289	21	20.9	1.01		33.9	62
031	Merritt	196	1.02		34.9	562	35	40.7	0.86		28.9	121
032	Hope	150	1.21	*	41.4	362	26	22.9	1.14		38.2	68
033	Chilliwack	1,820	1.20	*	40.8	4,456	414	342.6	1.21	*	40.7	1,018
034	Abbotsford	2,736	0.99		33.8	8,103	583	582.3	0.97		32.5	1,730
035	Langley	2,338	1.11	*	37.9	6,174	492	448.3	1.10	*	36.9	1,332
037	Delta	1,488	0.91	*	31.0	4,804	248	289.5	0.86	*	28.8	860
038	Richmond	2,208	0.83	*	28.4	7,770	438	588.0	0.74	*	25.1	1,747
040	New Westminster	1,175	1.07	*	36.6	3,208	254	233.9	1.09		36.5	695
041	Burnaby	3,009	0.84	*	28.7	10,478	637	781.9	0.81	*	27.4	2,323
042	Maple Ridge	1,716	1.13	*	38.5	4,459	414	316.0	1.31	*	44.1	939
043	Coquitlam	3,698	1.06	*	36.3	10,178	776	721.0	1.08	*	36.2	2,142
044	North Vancouver	1,870	0.87	*	29.8	6,279	357	405.2	0.88	*	29.7	1,204
045	West Vancouver-Bowen Is.	413	0.80	*	27.4	1,507	93	101.3	0.92		30.9	301
046	Sunshine Coast	331	1.06		36.2	915	90	66.6	1.35	*	45.5	198
047	Powell River	290	1.20	*	41.0	708	52	40.4	1.29		43.3	120
048	Howe Sound	665	1.00		34.2	1,947	160	162.6	0.98		33.1	483
049	Bella Coola Valley	119	1.32	*	45.2	263	20	11.1	1.80	*	60.6	33
050	Queen Charlotte	118	1.20	*	41.1	287	11	13.8	0.80		26.8	41
051	Snow Country	11	0.92		31.4	35	2	1.7	1.19		40.0	5
052	Prince Rupert	325	1.02		34.9	931	67	60.6	1.11		37.2	180
053	Upper Skeena	169	1.43	*	49.0	345	34	22.2	1.53	*	51.5	66
054	Smithers	382	1.00		34.2	1,116	79	71.0	1.11		37.4	211
055	Burns Lake	151	1.03		35.3	428	40	31.0	1.29		43.5	92
056	Nechako	423	1.12	*	38.3	1,103	103	74.7	1.38	*	46.4	222
057	Prince George	2,217	1.24	*	42.2	5,252	460	366.9	1.25	*	42.2	1,090
059	Peace River South	580	1.19	*	40.8	1,422	124	115.8	1.07		36.0	344
060	Peace River North	744	0.85	*	29.2	2,549	170	203.0	0.84	*	28.2	603
061	Greater Victoria	3,010	1.01		34.6	8,688	628	617.3	1.02		34.2	1,834
062	Sooke	1,098	1.09	*	37.2	2,953	235	213.7	1.10		37.0	635
063	Saanich	756	1.06	*	37.0	2,042	126	125.2	1.01		33.9	372
064	Gulf Islands	144	0.99		33.9	425	30	31.0	0.97		32.6	92
065	Cowichan	907	1.10	*	37.4	2,422	227	187.5	1.21	*	40.8	557
066	Lake Cowichan	77	1.14		39.1	197	12	14.5	0.83		27.9	43
067	Ladysmith	291	1.17	*	39.9	730	57	53.5	1.07		35.8	159
068	Nanaimo	1,884	1.36	*	46.4	4,064	398	310.0	1.28	*	43.2	921
069	Qualicum	498	1.28	*	43.8	1,137	94	85.2	1.10		37.2	253
070	Alberni	583	1.12	*	38.4	1,519	146	112.8	1.29	*	43.6	335
071	Courtenay	860	1.09	*	37.4	2,302	167	171.0	0.98		32.9	508
072	Campbell River	760	1.25	*	42.6	1,783	172	133.3	1.29	*	43.4	396
075	Mission	810	1.11	*	37.9	2,138	159	155.2	1.02		34.5	461
076	Agassiz - Harrison	181	1.17	*	40.0	452	42	33.7	1.25		42.0	100
077	Summerland	140	1.15		39.1	358	19	23.9	0.80		26.8	71
078	Enderby	110	1.05		35.8	307	30	25.9	1.16		39.0	77
080	Kitimat	194	1.18	*	40.2	483	36	27.9	1.29		43.4	83
081	Fort Nelson	146	0.83	*	28.3	516	29	32.0	0.91		30.5	95
083	Central Coast	53	1.10		37.6	141	13	8.4	1.54		52.0	25
084	Vancouver Island West	59	1.38	*	47.2	125	8	4.7	1.70		57.1	14
085	Vancouver Island North	329	1.23	*	42.1	781	72	50.5	1.43	*	48.0	150
087	Stikine	16	1.74	*	59.3	27	2	1.3	1.49		50.0	4
088	Terrace	499	1.18	*	40.2	1,240	90	81.8	1.10		37.0	243
092	Nisga'a	54	1.10		37.5	144	19	12.1	1.57	*	52.8	36
094	Telegraph Creek	13	0.95		32.5	40	6	4.0	1.49		50.0	12
161	Vancouver - City Centre	1,313	0.93	*	31.9	4,119	286	309.3	0.92		31.1	919
162	Vancouver - Downtown E.side	811	1.03		35.1	2,308	143	152.5	0.94		31.6	453
163	Vancouver - North East	1,485	0.79	*	27.1	5,489	302	379.7	0.80	*	28.8	1,128
164	Vancouver - Westside	1,718	0.90	*	30.7	5,600	321	387.4	0.83	*	27.9	1,151
165	Vancouver - Midtown	1,457	0.86	*	29.4	4,960	332	349.4	0.95		32.0	1,038
166	Vancouver - South	1,727	0.79	*	26.9	6,418	352	444.3	0.79	*	26.7	1,320
201	Surrey	6,629	0.87	*	29.6	22,431	1,411	1,654.6	0.85	*	28.7	4,916
202	South Surrey/White Rock	928	1.04		35.4	2,618	202	181.1	1.12		37.5	538
	PROVINCIAL TOTAL	**69,283**	**1.00**		**34.2**	**202,571**	**14,647**	**14,647.0**	**1.00**		**33.7**	**43,517**

Note: *Statistical testing indicates that observed number of births with perinatal complications is signficantly different from the expected ($p<0.05$, two tailed). Ratio-observed over the expected. Percent of births is based on total live births and includes residents with unknown LHA and exclude non-residents.

FIGURE 34

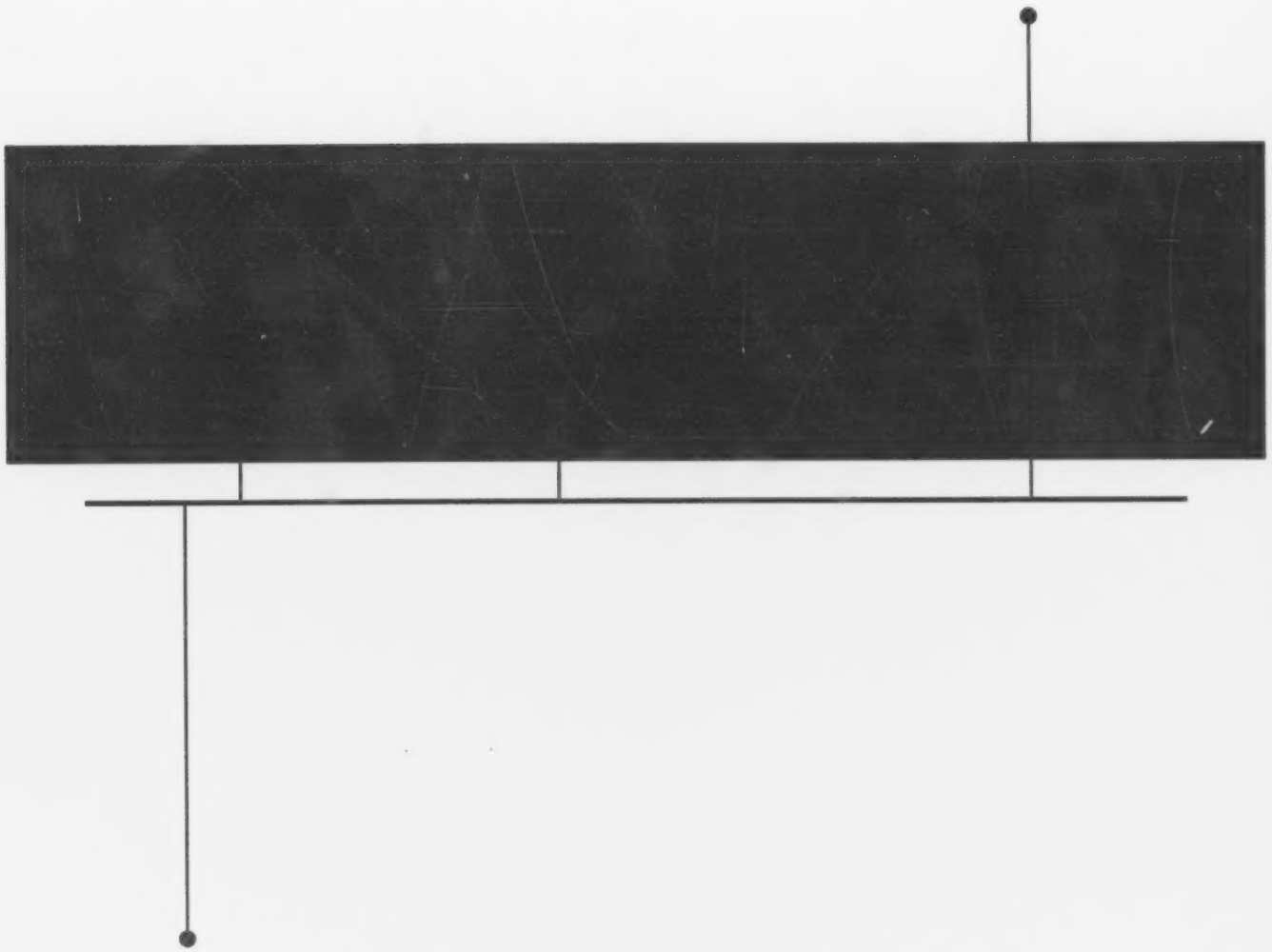
PERINATAL COMPLICATIONS IN LIVE BIRTHS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 2002–2006



Note: Ratio - Observed over the expected. Refer to Figure 1 to clarify geographical location of LHAs.

Death-related Statistics



Vital Statistics Information Box

Deaths by Decedent's Country of Birth
British Columbia, 2007

Area	Province/Country	Births
Canada	**Total**	**20,880**
	British Columbia	8,134
	Saskatchewan	4,003
	Alberta	2,982
	Ontario	2,129
	Manitoba	2,125
	Quebec	685
	Nova Scotia	352
	New Brunswick	228
	Newfoundland & Labrador	131
	Prince Edward Island	36
	Yukon	31
	Northwest Territories & Nunavut	18
	Unknown Province	6
North and Central	**Total**	**835**
	United States	732
	Other North and Central American Countries	103
South America		**58**
Europe	**Total**	**6,209**
	England	1,995
	Other United Kingdom	824
	Germany	682
	Scandinavian Countries	523
	Italy	340
	Poland	287
	Netherlands	231
	Holland	206
	Hungary	171
	Other European Countries	950
Asia and the Middle East	**Total**	**2,656**
	China	1,038
	India	586
	Philippines	181
	Russia	167
	Hong Kong	120
	Vietnam	85
	Korea	62
	Pakistan	60
	Other Asian and Middle Eastern Countries	357
Africa	**Total**	**169**
Oceania	**Total**	**141**
	Fiji	71
	Australia	44
	Other Oceanic Countries	26
Unknown	**Total**	**177**
Total		**31,105**

Note: Births consist of live births only. Non-residents are excluded.

Death Introduction

In recognition of the importance of mortality statistics for health surveillance, planning and research a comprehensive array of tables is presented in this part of the report. Causes of death and/or age at death form the base of most tables because they are crucial components of health status for regional, national, and international comparisons. While other causes may have contributed to the death, the *Underlying Cause of Death* (UCOD) (see *Glossary*) is defined as the condition or injury that initiated the train of events leading directly to death, and was used for these tabulations. All causes are identified according to the World Health Organization's *International Statistical Classification of Diseases and Related Health Problems, Tenth Revision* (ICD-10) which is a statistical coding system and the accepted international standard for mortality coding. The groups of codes used to define particular topics are noted in the tables.

Deaths – General Indicators

An overall view of the number of deaths by ICD-10 chapters by age group and gender is shown in Table 21. It provides a summary of the contribution of the 19 diagnostic categories to total deaths in BC in 2007. More detailed information for the same age groups appears in Appendix 2, which provides counts at the "3 character level". Although the causes shown in Appendix 2 ("Detailed Cause of Death by Gender and Age") are fairly specific, most ICD-10 codes consist of four or five characters, and are therefore even more detailed than the "roll ups" shown in Appendix 2. Neoplasms and diseases of the circulatory system accounted for most of the deaths in 2007 for both genders. Deaths in those two cause categories are further analysed in the following sections.

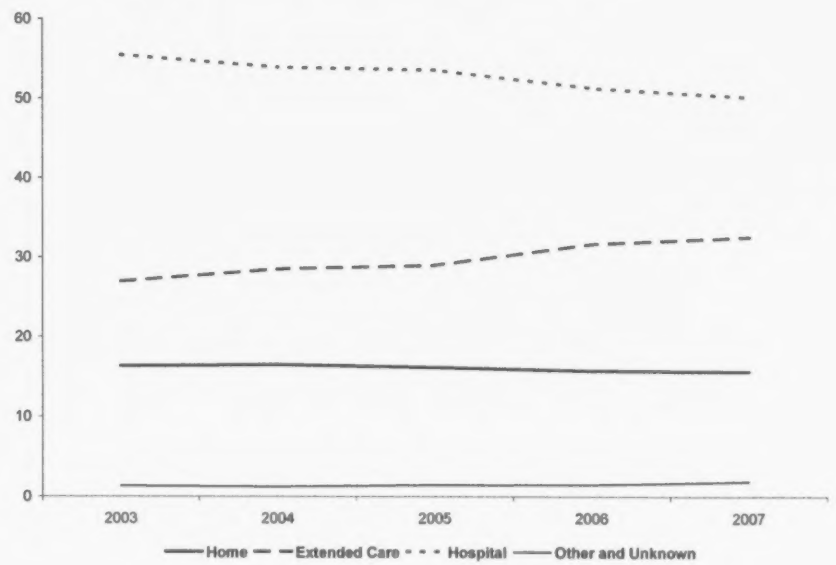
Vital Statistics Information Box

Place of Death for Deaths From Natural Causes
British Columbia, 2003 - 2007

Deaths from natural causes in 2003 to 2007 were examined to determine the place of death. The majority of these deaths to BC residents occurred in hospital (52.8 percent over the five year period). About one in six deaths from natural causes (16.0 percent) occurred at home and almost one third (29.8 percent) occurred in extended care facilities.

	2003		2004		2005		2006		2007		2003-2007	
Place of Death	**No.**	**%**	**No.**	**%**	**No.**	**%**	**No.**	**%**	**No.**	**%**	**Total**	**%**
Home	4,439	16.3	4,573	16.4	4,534	16.1	4,515	15.7	4,610	15.6	22,671	16.0
Extended Care	7,343	27.0	7,916	28.5	8,140	28.9	9,090	31.6	9,613	32.5	42,102	29.8
Hospital	15,103	55.5	14,976	53.9	15,053	53.5	14,735	51.2	14,829	50.1	74,696	52.8
Other and Unknown	352	1.3	337	1.2	393	1.4	418	1.5	548	1.9	2,048	1.4
Total Deaths from Natural Causes	**27,237**	**100.0**	**27,802**	**100.0**	**28,120**	**100.0**	**28,758**	**100.0**	**29,600**	**100.0**	**141,517**	**100.0**

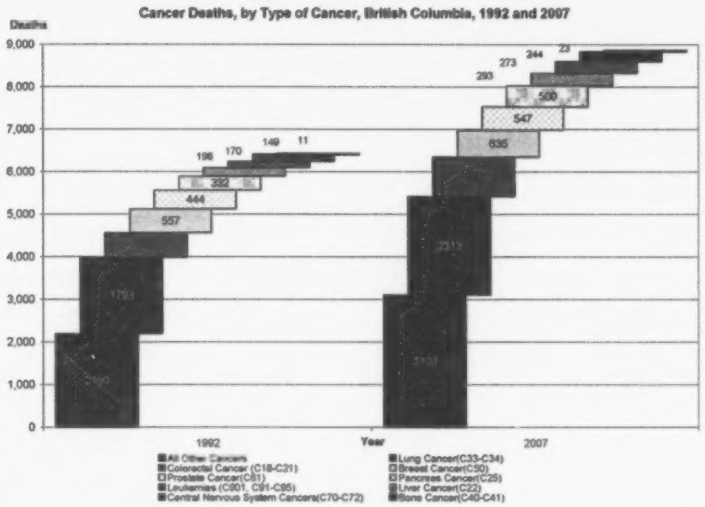
Percent of Deaths from Natural Causes by Place of Death
British Columbia, 2003 - 2007

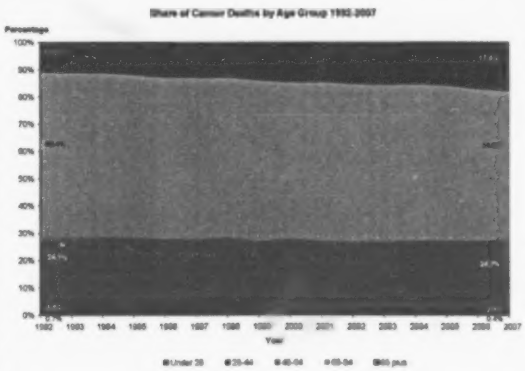


Vital Statistics Information Box

Cancer Deaths in British Columbia, 1992 to 2007

More British Columbians succumbed to Cancer or Malignant Neoplasms (ICD Codes C00-C97) than any other cause in 2007. The following charts illustrate the trends and changes in deaths caused by Cancer from 1992 to 2007. As illustrated, the proportion of deaths caused by speci c types of Cancer has not changed substantially from 1992 to 2007. However, those dying of Cancer in 2007 are older than they were in 1992 and larger shares of them are female. The age standardized death rate has climbed, but the potential years of life lost per 10,000 standard population, PYLL Standard Rate, (PYLLSR) has fallen.





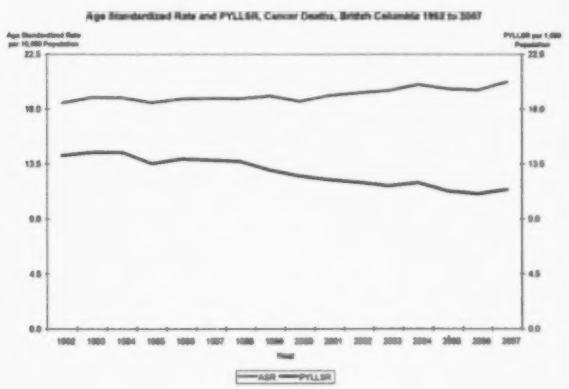


TABLE 21
CAUSES OF DEATH BY GENDER AND AGE
BRITISH COLUMBIA, 2007

ICD-10 Code(s)	Causes of Death	Gender	Age Group (in Years)										Total		
			<1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Number	Percent	ASMR
A00-B99	Certain infectious and parasitic diseases	M	1	-	-	-	1	1	39	131	84	85	342	2.1	1.29
		F	1	-	1	-	-	1	13	49	50	127	242	1.6	0.69
		T	2	-	1	-	1	2	52	180	134	212	584	1.9	0.98
C00-D48	Neoplasms	M	1	3	3	2	3	8	91	1,162	2,075	1,487	4,835	30.2	18.30
		F	-	2	6	3	3	3	115	1,039	1,521	1,512	4,204	27.8	13.22
		T	1	5	9	5	6	11	206	2,201	3,596	2,999	9,039	29.1	15.45
D50-D89	Diseases of blood and blood-forming organs,certain immune mechanisms	M	-	-	-	-	-	-	1	9	9	25	44	0.3	0.16
		F	-	-	1	-	1	-	-	7	14	28	51	0.3	0.14
		T	-	-	1	-	1	-	1	16	23	53	95	0.3	0.15
E00-E90	Endocrine/nutritional/metabolic diseases	M	-	1	-	2	-	1	15	122	256	287	684	4.3	2.59
		F	-	-	-	1	1	1	7	59	171	353	593	3.9	1.64
		T	-	1	-	3	1	2	22	181	427	640	1,277	4.1	2.07
F00-F99	Mental and behavioural disorders	M	-	-	-	-	-	-	14	53	99	274	440	2.7	1.64
		F	-	-	-	-	-	-	11	20	63	572	666	4.4	1.50
		T	-	-	-	-	-	-	25	73	162	846	1,106	3.6	1.59
G00-G99	Diseases of the nervous system	M	4	1	1	1	6	5	14	80	159	274	545	3.4	2.06
		F	1	-	-	-	3	1	8	68	118	505	704	4.7	1.77
		T	5	1	1	1	9	6	22	148	277	779	1,249	4.0	1.92
H00-H59	Diseases of the eye and adnexa	M	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	1	-	1	0.0	+
		T	-	-	-	-	-	-	-	-	1	-	1	0.0	+
H60-H95	Diseases of the ear and mastoid process	M	1	-	-	-	-	-	-	-	-	-	1	0.0	+
		F	-	-	-	-	-	-	-	-	-	-	-	-	-
		T	1	-	-	-	-	-	-	-	-	-	1	0.0	+
I00-I99	Diseases of the circulatory system	M	-	-	-	-	1	5	69	658	1,483	2,467	4,683	29.3	17.46
		F	-	-	-	-	1	-	36	205	863	3,727	4,832	32.0	11.68
		T	-	-	-	-	2	5	105	863	2,346	6,194	9,515	30.6	14.36
J00-J99	Diseases of the respiratory system	M	1	-	-	1	1	5	11	146	512	963	1,640	10.2	6.13
		F	2	-	1	1	1	2	16	107	364	1,143	1,637	10.8	4.18
		T	3	-	1	2	2	7	27	253	876	2,106	3,277	10.5	5.00
K00-K93	Diseases of the digestive system	M	1	-	1	-	-	-	32	208	203	213	658	4.1	2.45
		F	-	1	1	-	1	1	13	129	157	367	670	4.4	1.86
		T	1	1	2	-	1	1	45	337	360	580	1,328	4.3	2.15
L00-L99	Diseases of the skin and subcutaneous tissue	M	-	-	-	-	-	-	1	4	7	6	18	0.1	0.07
		F	-	-	-	-	-	-	-	-	8	28	36	0.2	0.08
		T	-	-	-	-	-	-	1	4	15	34	54	0.2	0.08
M00-M99	Diseases of the musculoskeletal system and connective tissue	M	-	1	-	-	-	-	1	4	34	21	61	0.4	0.24
		F	-	-	-	-	-	-	7	20	30	75	132	0.9	0.38
		T	-	1	-	-	-	-	8	24	64	96	193	0.6	0.32
N00-N99	Diseases of the genitourinary system	M	-	-	-	-	1	1	2	29	77	247	357	2.2	1.32
		F	-	-	-	-	-	-	3	22	69	311	405	2.7	0.97
		T	-	-	-	-	1	1	5	51	146	558	762	2.4	1.11
O00-O99	Complications of pregnancy, childbirth and the puerperium	M	-	-	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	2	-	-	-	2	0.0	+
		T	-	-	-	-	-	-	2	-	-	-	2	0.0	+
P00-P96	Certain conditions originating in the perinatal period	M	53	-	-	-	-	-	1	-	-	-	54	0.3	0.36
		F	37	1	-	1	-	-	-	-	-	-	39	0.3	0.27
		T	90	1	-	1	-	-	1	-	-	-	93	0.3	0.32
Q00-Q99	Congenital anomalies	M	20	1	-	2	-	1	2	11	4	1	42	0.3	0.22
		F	15	2	-	1	1	1	5	6	2	7	40	0.3	0.20
		T	35	3	-	3	1	2	7	17	6	8	82	0.3	0.21
R00-R99	Symptoms, signs and ill-defined conditions, unknown causes	M	23	4	3	6	23	30	179	230	69	38	605	3.8	2.60
		F	9	6	2	-	11	17	60	98	52	82	337	2.2	1.26
		T	32	10	5	6	34	47	239	328	121	120	942	3.0	1.93
V01-Y98	External causes	M	2	1	1	4	40	78	274	317	118	161	996	6.2	4.17
		F	-	-	-	7	18	17	106	128	65	168	509	3.4	1.76
		T	2	1	1	11	58	95	380	445	183	329	1,505	4.8	2.93
	All causes	M	107	12	9	18	76	135	746	3,164	5,189	6,549	16,005	100.0	61.06
		F	65	12	12	14	41	44	402	1,957	3,548	9,005	15,100	100.0	41.61
	PROVINCIAL TOTAL	T	172	24	21	32	117	179	1,148	5,121	8,737	15,554	31,105	100.0	50.59

Note: ASMR per 10,000 standard population (Canada 1991 Census). Total percentage may not add up to 100 due to rounding. + Denotes the number of cases is less than five. Non-residents are excluded. Total includes unknown gender. The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

Leading Causes of Death

Table 22 shows the 12 leading causes of death in BC. The two leftmost columns list the cause and the corresponding codes in ICD-10. For 2002-2006 period and the year 2007, the following four values are shown: number of deaths, the rank by number of deaths, the ASMR, and the rank by ASMR. The numbers demonstrate the absolute impact of each cause of death by showing how many individuals died from that cause in BC during the time period. The rows of the table are in the order of the 2007 ASMR rank. .

For 2007 the 12 leading causes of death shown in Table 22 were responsible for 84.9 percent of all deaths. The top three causes of death were the same for both time periods, not only in the rank by number of deaths, but also in ASMR rank; they are *Malignant Neoplasms*, *Cardiovascular Diseases* and *Cerebrovascular Diseases*. For 2007, these 3 leading causes account for 57.4 percent of all deaths.

Figure 35 shows the number of deaths from Table 22 in 2007 graphically. It shows clearly the impact of the top three categories, causing more than half of all deaths.

Table 23 shows the five leading causes of death in the 7 different age groupings. The leading cause of death among those under 1 year of age (infant mortality), were conditions originating in the perinatal period with a little over 50 percent of the deaths being attributable to this cause. The second most numerous causes of infant death were congenital malformations and chromosomal abnormalities. More than half of all infant deaths occurred in the first 7 days after birth and about two-thirds (66.9 percent) occurred within the first 28 days after birth (see Table 27). Males accounted 62.2 percent of the deaths among those under 1 year of age. Infant mortality is examined in more detail in the next section.

Among children 1 to 14 years old, malignant neoplasms were the most common cause of deaths for both genders. Unintentional injuries claimed more female than male lives whereas congenital malformations and chromosome abnormalities were equally distributed between both genders.

By contrast, unintentional (accidental) injuries were the leading cause of death, particularly for males, in the age groups 15-24 and 25-44. Those causes include events such as motor vehicle accidents, falls, and unintentional poisonings, A more detailed list of the included causes by ICD codes appears in Appendix 2. Counts of death due to unintentional injuries, suicide, and homicide (collectively referred to as "external causes of death") in the current year tend to underestimate the actual figures due to known delays in determining final causes of deaths. As a result it can be anticipated that these numbers will be revised upwards in subsequent annual reports.

Between 15 and 24 years of age, suicides ranked second as the leading cause of death after unintentional injuries (see also Table 35). There were substantially fewer female deaths in this age group as shown in Table 23. In the age group between 25 and 44, malignant neoplasms were second most common cause of death with female deaths outnumbering males and comprising the largest proportion of female mortality in this age group.

Malignant neoplasms were the leading cause of death for those between 45 and 64 years and they claimed a larger number of deaths for males but a greater proportion of female deaths in this age group.

Between 65 and 84 years of age, 35.5 percent of the deaths were due to malignant neoplasms, followed by cardiovascular disease which caused about 1 in 5 deaths (20.7 percent). For those 85 years and older, the relative importance of those 2 cause categories was reversed with cardiovascular disease causing about 1 in 3 deaths (29.5 percent).

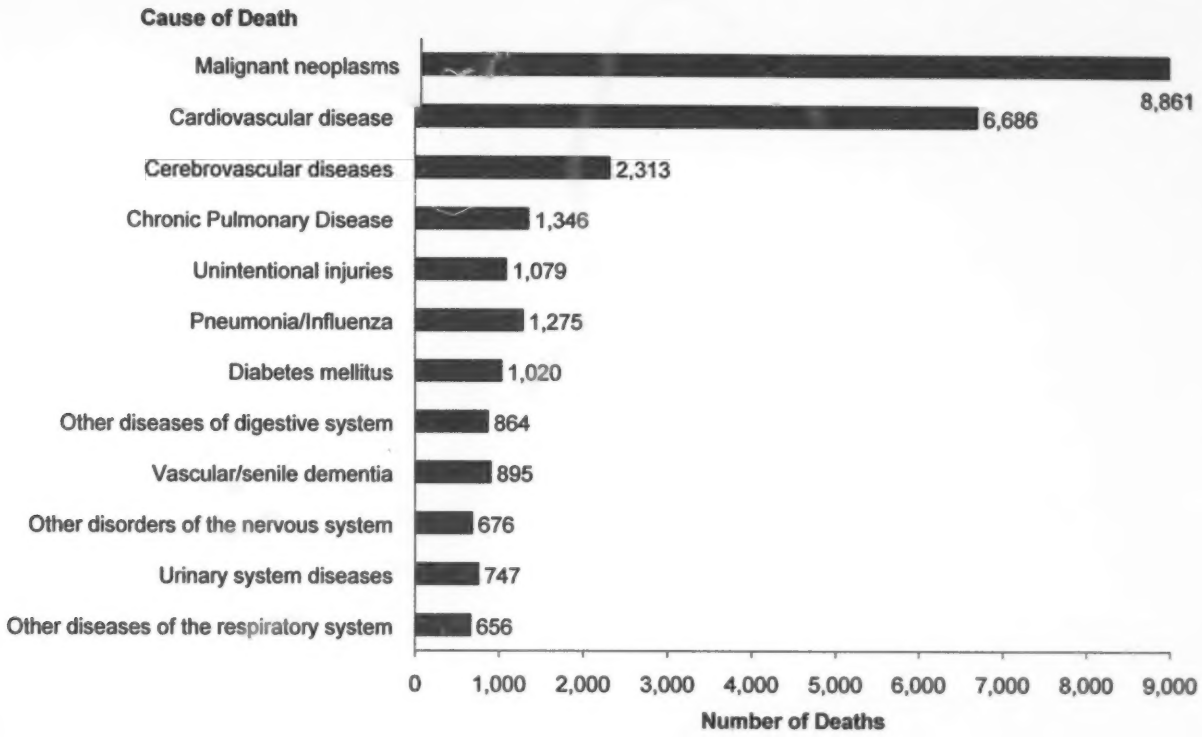
Malignant neoplasms were ranked in the first 3 leading causes of death in each age group for those over 1 year of age and were the overall leading cause of death in BC in 2002 to 2006, as well as in 2007 (see Table 22 and Figure 35). Despite this, the age-standardized mortality rates for total malignant neoplasms and for lung cancer have declined over the last 2 decades (see Figures 19 and 20).

TABLE 22
TWELVE LEADING CAUSES OF DEATH
BRITISH COLUMBIA, 2002–2006 AND 2007

Cause of Death	ICD-10 Code(s)	2002–2006 Number	Rank	ASMR	Rank	2007 Number	Rank	ASMR	Rank
Malignant neoplasms	C00-C97	41,324	1	15.46	1	8,861	1	15.17	1
Cardiovascular disease	I00-I51	34,063	2	11.61	2	6,686	2	10.11	2
Cerebrovascular diseases	I60-I69	11,185	3	3.74	3	2,313	3	3.45	3
Chronic Pulmonary Disease	J40-J44	6,246	6	2.19	5	1,346	4	2.15	4
Unintentional injuries	V01-X59, Y40-Y86, Y880-Y883	6,697	4	2.82	4	1,079	6	2.04	5
Pneumonia/Influenza	J09-J181, J188, J189	6,553	5	2.13	6	1,275	5	1.82	6
Diabetes mellitus	E10-E14	4,839	7	1.74	7	1,020	7	1.65	7
Other diseases of digestive system	K00-K67, K80-K93	3,887	8	1.33	8	864	9	1.34	8
Vascular/senile dementia	F01, F03	3,153	10	0.99	14	895	8	1.22	9
Other disorders of the nervous system	G00-G25, G31-G99	2,996	12	1.11	10	676	11	1.12	10
Urinary system diseases	N00-N39, N990, N991, N995	3,049	11	1.02	13	747	10	1.09	11
Other diseases of the respiratory system	J00-J06, J182, J20-J39, J45-J98	2,807	13	0.97	15	656	12	1.02	12
Other causes[1]		21,420		8.27		4,687		8.40	
TOTAL (All causes of death)		**148,219**		**53.39**		**31,105**		**50.59**	

Note: [1]Other causes includes undetermined and pending.
ASMR – per 10,000 standard population (Canada 1991 Census).
The ASMR in the current year determined the order in which the causes of death are presented.
Leading causes are ranked according to 2007 ASMR.
Non-residents are excluded. The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time.
Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

FIGURE 35
TWELVE LEADING CAUSES OF DEATH
BRITISH COLUMBIA, 2007



Vital Statistics Information Box

AGE AT DEATH OF THE OLDEST MALE AND FEMALE
BRITISH COLUMBIA, 1986-2007

Gender	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Male	105	107	111	110	113	105	111	111	109	108	108	106	109	108	109	104	104	107	106	107	105	107
Female	110	107	110	110	110	113	107	110	110	108	109	111	113	108	111	113	111	107	108	110	109	110

TABLE 23
LEADING CAUSES OF DEATH BY AGE AND GENDER
BRITISH COLUMBIA, 2007

Cause of Death	ICD-10 Code(s)	Male		Female		Total	
		Number	Percent	Number	Percent	Number	Percent
Under 1 Year Old							
1. Certain conditions originating in the perinatal period	P00-P96	53	49.5	37	56.9	90	52.3
2. Congenital malformations and chromosome abnormalities	Q00-Q99	20	18.7	15	23.1	35	20.3
3. Sudden infant death syndrome	R95	7	6.5	4	6.2	11	6.4
4. Other disorders of the nervous system	G00-G25, G31-G99	4	3.7	1	1.5	5	2.9
5. Pneumonia/Influenza	J09-J181, J188, J189	1	0.9	2	3.1	3	1.7
Other causes[1]		22	20.6	6	9.2	28	16.3
All causes		**107**	**100.0**	**65**	**100.0**	**172**	**100.0**
1-14 Years Old							
1. Malignant neoplasms	C00-C97	8	20.5	11	28.9	19	24.7
2. Unintentional injuries	V01-X59, Y40-Y86, Y880-Y883	4	10.3	6	15.8	10	13.0
3. Congenital malformations and chromosome abnormalities	Q00-Q99	3	7.7	3	2.8	6	7.8
4. Metabolic disorders	E70-E89	3	7.7	1	2.6	4	5.2
5. Other disorders of the nervous system	G00-G25, G31-G99	3	7.7	-	-	3	3.9
Other causes[1]		18	46.2	17	44.7	35	45.5
All causes		**39**	**100.0**	**38**	**100.0**	**77**	**100.0**
15-24 Years Old							
1. Unintentional injuries	V01-X59, Y40-Y86, Y880-Y883	78	37.0	26	30.6	104	35.1
2. Suicide	X60-X84, Y870	35	16.6	8	9.4	43	14.5
3. Malignant neoplasms	C00-C97	11	5.2	6	7.1	17	5.7
4. Other disorders of the nervous system	G00-G25, G31-G99	11	5.2	4	3.7	15	5.1
5. Pneumonia/Influenza	J09-J181, J188, J189	3	1.4	3	3.5	6	2.0
Other causes[1]		73	34.6	38	44.7	111	37.5
All causes		**211**	**100.0**	**85**	**100.0**	**296**	**100.0**
25-44 Years Old							
1. Unintentional injuries	V01-X59, Y40-Y86, Y880-Y883	173	23.2	61	15.2	234	20.4
2. Malignant neoplasms	C00-C97	90	12.1	115	28.6	205	17.9
3. Suicide	X60-X84, Y870	91	12.2	40	10.0	131	11.4
4. Cardiovascular disease	I00-I51	52	7.0	22	5.5	74	6.4
5. Certain infectious and parasitic diseases	A00-B99	39	5.2	13	3.2	52	4.5
Other causes[1]		301	40.3	151	37.6	452	39.4
All causes		**746**	**100.0**	**402**	**100.0**	**1,148**	**100.0**

(concluded on next page)

Note: Order of leading causes based on total deaths in the specified age group.
[1]Other causes includes undetermined and pending. Total percentage may not add up to 100 due to rounding. Non-residents are excluded. The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

TABLE 23 – *concluded*

LEADING CAUSES OF DEATH BY AGE AND GENDER

BRITISH COLUMBIA, 2007

Cause of Death	ICD-10 Code(s)	Male		Female		Total	
		Number	Percent	Number	Percent	Number	Percent
45-64 Years Old							
1. Malignant neoplasms	C00-C97	1,150	36.3	1,035	52.9	2,185	42.7
2. Cardiovascular disease	I00-I51	513	16.2	135	6.9	648	12.7
3. Unintentional injuries	V01-X59, Y40-Y86, Y880-Y883	194	6.1	81	4.1	275	5.4
4. Diseases of liver	K70-K76	156	4.9	88	4.5	244	4.8
5. Certain infectious and parasitic diseases	A00-B99	131	4.1	49	2.5	180	3.5
Other causes[1]		1,020	32.2	569	29.1	1,589	31.0
All causes		**3,164**	**100.0**	**1,957**	**100.0**	**5,121**	**100.0**
65-84 Years Old							
1. Malignant neoplasms	C00-C97	2,753	35.9	2,101	35.1	4,854	35.5
2. Cardiovascular disease	I00-I51	1,696	22.1	1,126	18.8	2,822	20.7
3. Cerebrovascular diseases	I60-I69	484	6.3	496	8.3	980	7.2
4. Chronic Pulmonary Disease	J40-J44	440	5.7	340	5.7	780	5.7
5. Diabetes mellitus	E10-E14	332	4.3	232	3.9	564	4.1
Other causes[1]		1,963	25.6	1,698	28.3	3,661	26.8
All causes		**7,668**	**100.0**	**5,993**	**100.0**	**13,661**	**100.0**
85 Years and Older							
1. Cardiovascular disease	I00-I51	1,205	29.6	1,932	29.5	3,137	29.5
2. Malignant neoplasms	C00-C97	724	17.8	856	13.0	1,580	14.9
3. Cerebrovascular diseases	I60-I69	336	8.3	807	12.3	1,143	10.8
4. Pneumonia/Influenza	J09-J181, J188, J189	294	7.2	488	7.4	782	7.4
5. Vascular/senile dementia	F01, F03	188	4.6	440	6.7	628	5.9
Other causes[1]		1,323	32.5	2,037	31.1	3,360	31.6
All causes		**4,070**	**100.0**	**6,560**	**100.0**	**10,630**	**100.0**

Notes for this table are on previous page.

Infant Mortality

BC had lower infant mortality rates than Canada as a whole from 1992 until 2005, the most recent year for which information on Canadian infant mortality rates is available (see Table 5). There were 172 infant deaths in BC in 2007 or 4 deaths per 1,000 live births. The rate 20 years ago was just over eight per 1,000 live births and that has progressively declined to the rates seen in the last few years.

Table 24 shows the number of infants who died in 2007 by birth weight and maternal age group. The first column has the mother's age groups ranging from less than 20 years up to 40 years or older. The infants' birth weights are grouped across the top of the table. Across the bottom and down the right side, the table shows row and column totals, percents, and rates per 1,000 live births. The difference in infant mortality rates across the 3 birth weight categories is quite distinct: for infants with birth weights of 2,500 grams or more, 1.4 per 1,000 live births in the same birth weight category died in their first year. In the 1,500-2,499 gram group the rate was 10.7 per 1,000 live births, and infants who weigh less than 1,500 grams had an infant mortality rate of 203.8 per 1,000 live births.

When these infant deaths are stratified across maternal age, the effect is not so dramatic. Although in 2007 the infant mortality rate to mothers under the age of 20 years was about 3 times the rate to older women, infant mortality was exceptionally low among teenagers in 2000 and 2006 (see Figure 15). In general, from 1986 to 2007, there has been a consistent downward trend in the infant mortality rate for all age groups.

Table 25 repeats the birth weight categories and general format shown in Table 24 but replaces maternal age groups with gestational age. Of the 172 infant deaths in 2007, only 46 were term births (37 to 41 weeks) with birth weights of 2,500 grams or more.

There was a dramatic increase in infant mortality as birth weight and gestational age decreased. More than 2 in 5 (44.8 percent) of infant deaths were extremely premature (less than 28 weeks) and with low birth weight (less than 2,500 grams). About 6 in 10 infant deaths were low birth weight (63.4 percent), more than two-thirds (69.2 percent) were premature (less than 37 weeks) and about 3 in 5 (61.6 percent) were both low birth weight and premature.

Table 26 shows infant mortality in each LHA of the infants' usual residence, for 2002-2006 and for the year 2007. The two columns on the left show the LHA number and name. The three columns for 2002-2006 show the number of infant deaths in the LHA (Observed Deaths), the ratio, and the rate of infant deaths per 1,000 live births. In this period, there were only seven LHAs with statistically significant ratios (five high and two low). For 2007, the table indicates the number of deaths in 3 age ranges, early neonatal (0 to 6 days), neonatal (0 to 27 days), and post-neonatal (28 to 364 days). The last 2 columns indicate the total number of infant deaths, and the infant death rate per 1,000 live births.

Causes of infant deaths and stillbirths are shown in Table 27. Infant death rates are per 10,000 live births and stillbirth rates are per 10,000 total births (live births plus stillbirths). More than half (57.6 percent) of infant deaths in 2007 occurred in the early neonatal period. Of those, 94.9 percent were due to congenital anomalies or perinatal conditions.

TABLE 24
INFANT MORTALITY BY AGE OF MOTHER AND BIRTH WEIGHT
BRITISH COLUMBIA, 2007

Age of Mother	Birth Weight (in Grams)				Total		
	<1500	1500–2499	2500+	N.S.	Number	Percent	Rate
<20	8	1	9	-	18	10.5	12.28
20-24	13	2	15	-	30	17.4	4.70
25-29	26	3	14	1	44	25.6	3.62
30-34	24	9	11	-	44	25.6	3.19
35-39	12	4	8	1	25	14.5	3.13
40+	4	3	1	-	8	4.7	4.60
N.S.	-	-	-	3	3	1.7	
TOTAL	**87**	**22**	**58**	**5**	**172**	**100.0**	**3.95**
Percent	**50.6**	**12.8**	**33.7**	**2.9**	**100.0**		
Rate	**203.75**	**10.65**	**1.41**		**3.95**		

Note: Infant Mortality – Age at death less than one year.
Rate per 1,000 live births in the specified age or birth weight group.
+Denotes the number of cases is less than five.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.
N.S. – Not stated.

TABLE 25
INFANT MORTALITY BY GESTATIONAL AGE AND BIRTH WEIGHT
BRITISH COLUMBIA, 2007

Gestational Age (In Weeks)	Birth Weight (in Grams)				Total		
	<1500	1500–2499	2500+	N.S.	Number	Percent	Rate
<20	2	-	-	-	2	1.2	+
20-27	75	-	-	-	75	43.6	401.07
28-36	9	20	12	1	42	24.4	13.63
37-41	1	2	46	1	50	29.1	1.25
42+	-	-	-	-	-	-	-
N.S.	-	-	-	3	3	1.7	
TOTAL	**87**	**22**	**58**	**5**	**172**	**100.0**	**3.95**
Percent	**50.6**	**12.8**	**33.7**	**2.9**	**100.0**		
Rate	**203.75**	**10.65**	**1.41**		**3.95**		

Note: Infant Mortality – Age at death less than one year.
Rate per 1,000 live births in the specified age or birth weight group.
+ Denotes the number of cases is less than five.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.
N.S. – Not stated.

Table 26

INFANT MORTALITY BY LOCAL HEALTH AREA, BRITISH COLUMBIA, 2002–2006 AND 2007

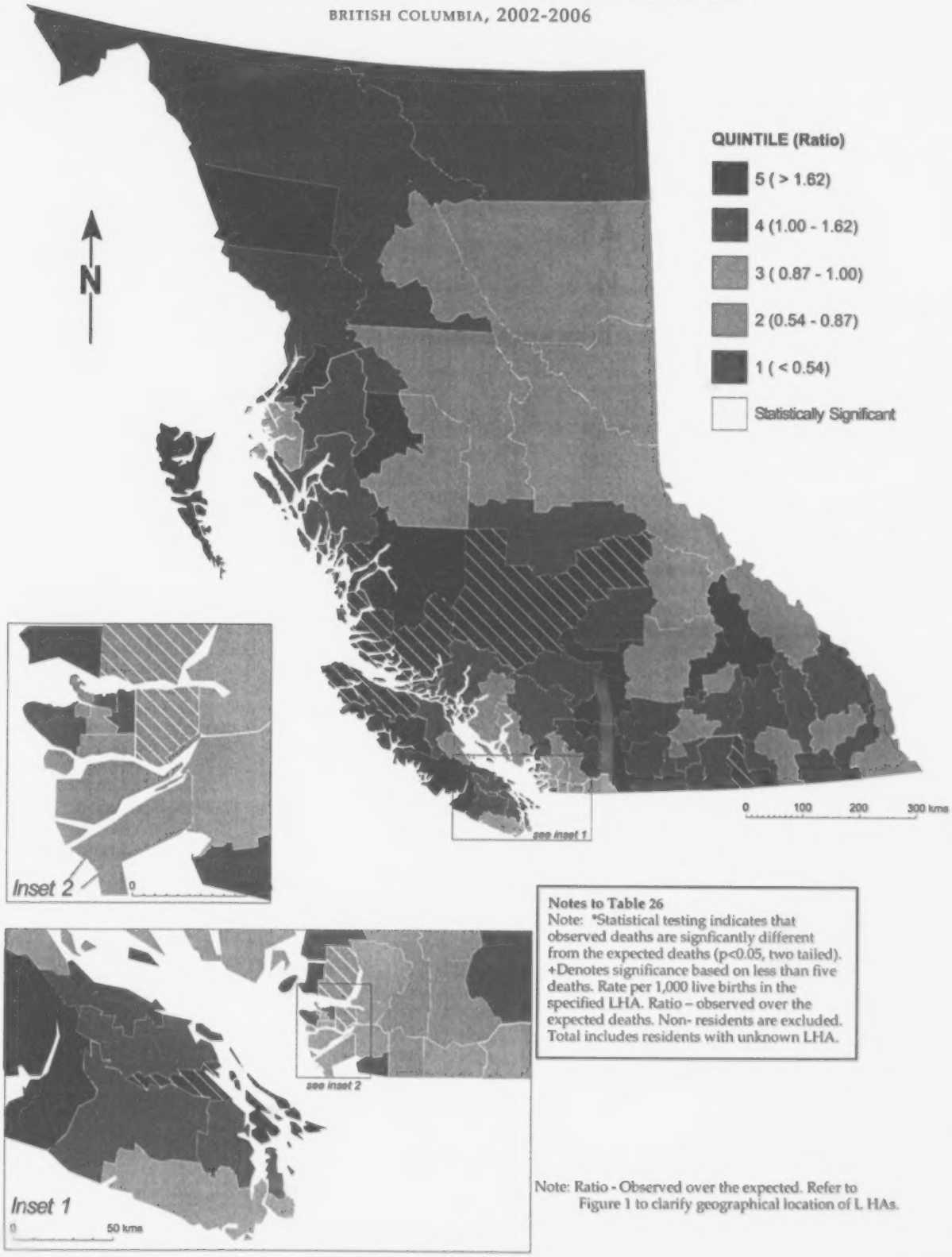
Local Health Area		2002–2006 Observed Deaths	Ratio (p)	Rate	2007 Age at Death (in Days) 0–6	0–27	28–364	Total Number	Rate
001	Fernie	2	0.79	3.35	-	-	-	-	-
002	Cranbrook	2	0.42	1.80	-	-	2	2	7.91
003	Kimberley	1	0.81	3.42	-	-	-	-	-
004	Windermere	2	1.40	5.92	-	-	-	-	-
005	Creston	-	-	-	-	-	-	-	-
006	Kootenay Lake	1	1.36	5.75	-	-	-	-	-
007	Nelson	3	0.65	2.75	-	-	-	-	-
009	Castlegar	1	0.54	2.27	-	-	-	-	-
010	Arrow Lakes	-	-	-	-	-	-	-	-
011	Trail	6	2.08	8.82	-	-	-	-	-
012	Grand Forks	5	3.51*	14.88	-	1	1	2	31.75
013	Kettle Valley	-	-	-	-	-	-	-	-
014	Southern Okanagan	1	0.40	1.71	-	-	-	-	-
015	Penticton	10	1.61	6.83	-	-	-	-	-
016	Keremeos	1	1.27	5.38	-	-	-	-	-
017	Princeton	-	-	-	-	-	-	-	-
018	Golden	1	0.71	3.02	1	1	-	1	14.71
019	Revelstoke	3	1.88	7.96	-	-	1	1	14.49
020	Salmon Arm	10	2.01	8.51	2	2	-	2	8.00
021	Armstrong - Spallumcheen	-	-	-	-	-	-	-	-
022	Vernon	13	1.20	5.07	1	1	-	1	1.82
023	Central Okanagan	26	0.91	3.84	4	5	3	8	4.90
024	Kamloops	21	1.11	4.71	1	1	-	1	0.96
025	100 Mile House	1	0.49	2.07	-	-	-	-	-
026	North Thompson	1	1.07	4.55	-	-	-	-	-
027	Cariboo - Chilcotin	13	2.16*	9.17	-	-	2	2	6.47
028	Quesnel	6	1.24	5.26	1	1	1	2	7.81
029	Lillooet	-	-	-	-	1	-	1	21.74
030	South Cariboo	2	1.63	6.92	-	-	1	1	16.13
031	Merritt	-	-	-	-	-	-	-	-
032	Hope	3	1.95	8.29	-	-	-	-	-
033	Chilliwack	18	0.95	4.04	-	1	-	1	0.98
034	Abbotsford	34	0.99	4.20	7	7	-	7	4.05
035	Langley	20	0.76	3.24	3	3	2	5	3.75
037	Delta	17	0.83	3.54	-	-	1	1	1.16
038	Richmond	24	0.73	3.09	4	4	3	7	4.01
040	New Westminster	9	0.66	2.81	3	3	1	4	5.76
041	Burnaby	24	0.54*	2.29	2	2	3	5	2.15
042	Maple Ridge	13	0.69	2.92	4	5	1	6	6.39
043	Coquitlam	42	0.97	4.13	2	4	2	6	2.80
044	North Vancouver	16	0.60*	2.55	-	-	2	2	1.66
045	West Vancouver-Bowen Is.	3	0.47	1.99	1	1	-	1	3.32
046	Sunshine Coast	3	0.77	3.28	1	1	-	1	5.05
047	Powell River	2	0.67	2.82	-	-	-	-	-
048	Howe Sound	11	1.33	5.65	2	3	1	4	8.28
049	Bella Coola Valley	4	3.59	15.21	-	-	-	-	-
050	Queen Charlotte	2	1.64	6.97	-	-	-	-	-
051	Snow Country	-	-	-	1	1	-	1	200.00
052	Prince Rupert	4	1.01	4.30	-	-	1	1	5.56
053	Upper Skeena	2	1.37	5.80	-	-	-	-	-
054	Smithers	8	1.69	7.17	-	-	-	-	-
055	Burns Lake	2	1.10	4.67	-	-	1	1	10.87
056	Nechako	5	1.07	4.53	-	-	1	1	4.50
057	Prince George	24	1.08	4.57	2	2	2	4	3.67
059	Peace River South	6	1.00	4.22	-	-	-	-	-
060	Peace River North	10	0.93	3.92	5	5	-	5	8.29
061	Greater Victoria	39	1.06	4.49	7	8	3	11	6.00
062	Sooke	13	1.04	4.40	1	2	-	2	3.15
063	Saanich	14	1.62	6.86	2	2	-	2	5.38
064	Gulf Islands	3	1.67	7.06	-	-	-	-	-
065	Cowichan	15	1.46	6.19	1	1	2	3	5.39
066	Lake Cowichan	1	1.20	5.08	-	-	1	1	23.26
067	Ladysmith	9	2.91*	12.33	-	-	-	-	-
068	Nanaimo	21	1.22	5.17	4	4	2	6	6.51
069	Qualicum	2	0.41	1.76	-	-	-	-	-
070	Alberni	11	1.71	7.24	2	2	1	3	8.96
071	Courtenay	8	0.82	3.48	1	1	1	2	3.94
072	Campbell River	11	1.46	6.17	3	3	1	4	10.10
075	Mission	6	0.66	2.81	-	-	2	2	4.34
076	Agassiz - Harrison	1	0.52	2.21	1	1	-	1	10.00
077	Summerland	1	0.66	2.79	-	-	-	-	-
078	Enderby	1	0.77	3.26	-	-	-	-	-
080	Kitimat	3	1.47	6.21	-	-	-	-	-
081	Fort Nelson	-	-	-	-	-	-	-	-
083	Central Coast	4	6.69+	28.37	-	-	-	-	-
084	Vancouver Island West	1	1.89	8.00	-	-	-	-	-
085	Vancouver Island North	8	2.42*	10.24	-	-	-	-	-
087	Stikine	-	-	-	-	-	-	-	-
088	Terrace	6	1.14	4.84	1	1	1	2	8.23
092	Nisga'a	2	3.28	13.89	-	-	-	-	-
094	Telegraph Creek	1	5.90	25.00	-	-	-	-	-
161	Vancouver - City Centre	10	0.57	2.43	-	-	1	1	1.09
162	Vancouver - Downtown E.side	13	1.33	5.63	1	1	-	1	2.21
163	Vancouver - North East	33	1.42	6.01	3	3	1	4	3.55
164	Vancouver - Westside	27	1.14	4.82	-	2	2	4	3.48
165	Vancouver - Midtown	22	1.05	4.44	4	5	3	8	7.71
166	Vancouver - South	27	0.99	4.21	3	5	1	6	4.55
201	Surrey	104	1.09	4.64	17	18	3	21	4.27
202	South Surrey/White Rock	5	0.45	1.91	1	1	-	1	1.86
	PROVINCIAL TOTAL	**860**	**1.00**	**4.24**	**99**	**118**	**57**	**172**	**3.95**

Notes for this table follow the map.

FIGURE 36

INFANT MORTALITY BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 2002-2006



Notes to Table 26
Note: *Statistical testing indicates that observed deaths are signficantly different from the expected deaths ($p<0.05$, two tailed). +Denotes significance based on less than five deaths. Rate per 1,000 live births in the specified LHA. Ratio – observed over the expected deaths. Non- residents are excluded. Total includes residents with unknown LHA.

Note: Ratio - Observed over the expected. Refer to Figure 1 to clarify geographical location of L HAs.

TABLE 27
SELECTED CAUSES OF INFANT DEATHS AND STILLBIRTHS
BRITISH COLUMBIA, 2007

Cause of Death	ICD-10 Code(s)	Infant Deaths – Age Group (in Days)					Stillbirths	
		<7	7–27	28–364	Total	Rate [1]	Number	Rate [2]
Congenital anomalies								
- of the nervous system	Q00-Q07	-	-	1	1	0.23	-	-
- of the eye, ear, face & neck	Q10-Q18	-	-	-	-	-	-	-
- of the heart and circulatory system	Q20-Q28	6	2	8	16	3.68	3	0.68
- of the respiratory system	Q30-Q34	3	-	1	4	0.92	-	-
- of the digestive system	Q35-Q45	-	-	-	-	-	-	-
- of the genital organs	Q50-Q56	-	-	-	-	-	-	-
- of the urinary system	Q60-Q64	1	1	-	2	0.46	-	-
- of the musculoskeletal system	Q65-Q79	3	-	1	4	0.92	1	0.23
Other and multiple system syndromes	Q80-Q89	2	-	-	2	0.46	2	0.46
Chromosomal anomalies	Q90-Q99	3	1	2	6	1.38	8	1.82
Total deaths due to congenital anomalies	**Q00-Q99**	**18**	**4**	**13**	**35**	**8.04**	**14**	**3.19**
Perinatal conditions								
Infant affected by maternal factors	P00-P04	26	-	-	26	5.97	123	28.04
Premature/postmature and fetal growth disorders	P05-P08	32	2	2	36	8.27	9	2.05
Birth trauma	P10-P15	-	-	-	-	-	-	-
Respiratory and cardiovascular disorders	P20-P29	4	1	-	5	1.15	11	2.51
Infections specific to the perinatal period	P35-P39	1	2	-	3	0.69	1	0.23
Hemorrhage and hematological disorders	P50-P61	-	-	-	-	-	2	0.46
Transitory endocrine and metabolic disorders	P70-P74	-	-	-	-	-	1	0.23
Digestive system disorders of fetus and newborn	P75-P78	1	1	4	6	1.38	-	-
Other disorders originating in the perinatal period	P80-P94, P96	12	1	1	14	3.22	123	28.04
Fetal death of unknown cause	P95	-	-	-	-	-	64	14.59
Total deaths due to perinatal conditions	**P00-P96**	**76**	**7**	**7**	**90**	**20.68**	**334**	**76.14**
Pneumonia/influenza	J09-J18.1, J18.8-J18.9	1	-	2	3	0.69	-	-
Sudden infant death syndrome (SIDS)[3]	R95	-	1	10	11	2.53	-	-
Other causes[3]		4	4	25	33	7.58	2	0.46
TOTAL		**99**	**16**	**57**	**172**	**39.52**	**350**	**79.79**
PERCENT		**57.6**	**9.3**	**33.1**	**100.0**			

Note: [1]Rate per 10,000 live births.
[2]Rate per 10,000 total births (live births plus stillbirths).
[3] Some of the infant deaths that were still under investigation (ICD-10 code R99) may later be identified as SIDS.
Non-residents are excluded.

Deaths Due to HIV

Mortality due to Human Immunodeficiency Virus (HIV) peaked in 1994 and has seen a general downward trend since then.

Table 28 shows the number of deaths due to HIV broken out by gender and 6 age groups from 1992 to 2007. The percentage of the total deaths in each year is shown for each age group. At the bottom of the table are counts and percentages for the entire time period. Figure 37 shows that in the period from 2002-2007 most deaths due to HIV disease in BC occurred in individuals who were between 40 and 49 years of age.

Although there were fluctuations in the yearly numbers of HIV deaths in Table 29, numbers have generally decreased each year. The Vancouver HSDA had the highest mortality rate (17.27 deaths per 100,000 population), from 1991 to 2007. In 2007 there were 42 deaths due to HIV in that area, far higher than any other HSDA.

FIGURE 37
DEATHS DUE TO HIV DISEASE BY AGE GROUP
BRITISH COLUMBIA, 2002–2007

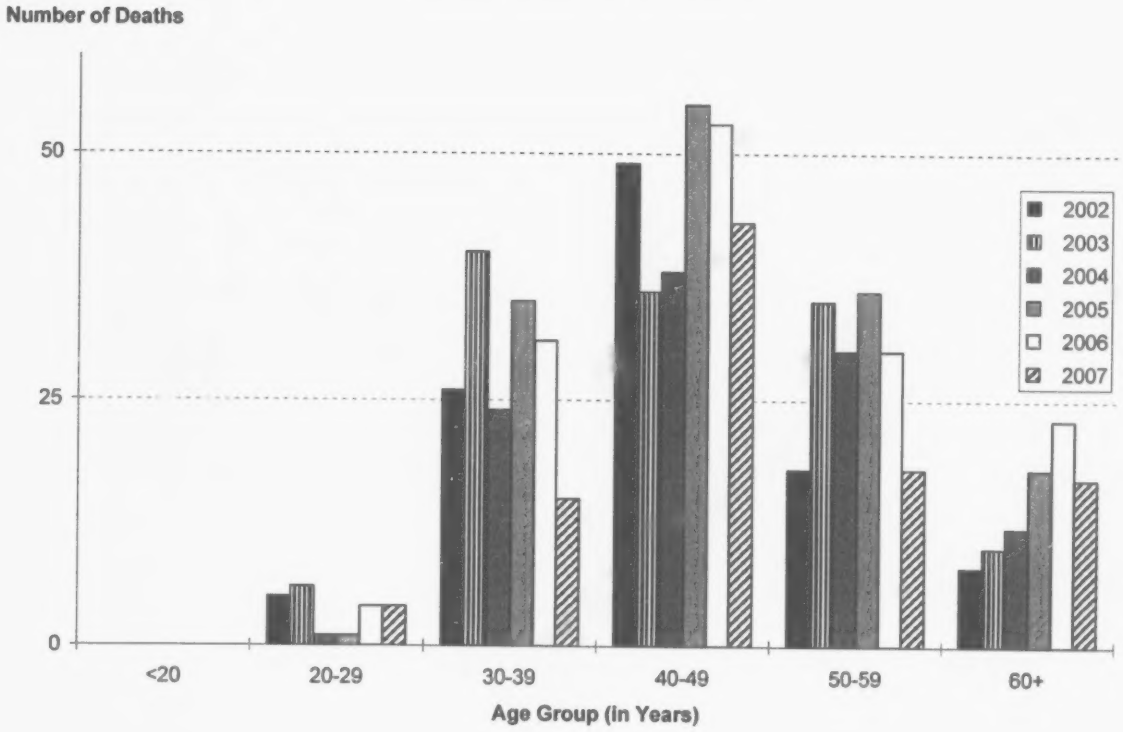


TABLE 28
DEATHS DUE TO HIV DISEASE BY GENDER AND AGE GROUP
BRITISH COLUMBIA, 1992–2007

Year of Death	Gender	Age at Death (in Years) <20	20–29	30–39	40–49	50–59	60+	Total
1992	M	-	28	101	89	22	5	245
	F	-	1	3	2	-	-	6
	T	-	29	104	91	22	5	251
	Percent	-	11.6	41.4	36.3	8.8	2.0	100.0
1993	M	-	28	114	95	34	15	286
	F	-	3	8	2	1	1	15
	T	-	31	122	97	35	16	301
	Percent	-	10.3	40.5	32.2	11.6	5.3	100.0
1994	M	-	19	147	101	29	12	308
	F	2	5	10	2	2	2	23
	T	2	24	157	103	31	14	331
	Percent	0.6	7.3	47.4	31.1	9.4	4.2	100.0
1995	M	-	17	116	103	31	9	276
	F	-	6	7	4	1	1	19
	T	-	23	123	107	32	10	295
	Percent	-	7.8	41.7	36.3	10.8	3.4	100.0
1996	M	3	9	106	73	34	10	235
	F	-	4	6	6	-	1	17
	T	3	13	112	79	34	11	252
	Percent	1.2	5.2	44.4	31.3	13.5	4.4	100.0
1997	M	-	11	40	33	11	6	101
	F	-	2	7	4	1	2	16
	T	-	13	47	37	12	8	117
	Percent	-	11.1	40.2	31.6	10.3	6.8	100.0
1998	M	-	6	32	44	7	4	93
	F	-	4	8	3	1	1	17
	T	-	10	40	47	8	5	110
	Percent	-	9.1	36.4	42.7	7.3	4.5	100.0
1999	M	1	3	37	32	13	4	90
	F	-	-	4	7	2	-	13
	T	1	3	41	39	15	4	103
	Percent	1.0	2.9	39.8	37.9	14.6	3.9	100.0
2000	M	-	5	31	31	23	8	98
	F	-	4	6	9	3	2	24
	T	-	9	37	40	26	10	122
	Percent	-	7.4	30.3	32.8	21.3	8.2	100.0
2001	M	-	-	30	33	19	9	91
	F	-	4	8	4	3	1	20
	T	-	4	38	37	22	10	111
	Percent	-	3.6	34.2	33.3	19.8	9.0	100.0
2002	M	-	4	20	37	15	8	84
	F	-	1	6	12	3	-	22
	T	-	5	26	49	18	8	106
	Percent	-	4.7	24.5	46.2	17.0	7.5	100.0
2003	M	-	2	34	26	32	10	104
	F	-	4	6	10	3	-	23
	T	-	6	40	36	35	10	127
	Percent	-	4.7	31.5	28.3	27.6	7.9	100.0
2004	M	-	-	17	30	29	10	86
	F	-	1	7	8	1	2	19
	T	-	1	24	38	30	12	105
	Percent	-	1.0	22.9	36.2	28.6	11.4	100.0
2005	M	-	1	27	43	31	18	120
	F	-	-	8	12	5	-	25
	T	-	1	35	55	36	18	145
	Percent	-	0.7	24.1	37.9	24.8	12.4	100.0
2006	M	-	2	22	42	27	20	113
	F	-	2	9	11	3	3	28
	T	-	4	31	53	30	23	141
	Percent	-	2.8	22.0	37.6	21.3	16.3	100.0
2007	M	-	1	14	33	15	14	77
	F	-	3	1	10	3	3	20
	T	-	4	15	43	18	17	97
	Percent	-	4.1	15.5	44.3	18.6	17.5	100.0
1992 - 2007	**M**	**4**	**136**	**888**	**845**	**372**	**162**	**2,407**
	F	**2**	**44**	**104**	**106**	**32**	**19**	**307**
	T	**6**	**180**	**992**	**951**	**404**	**181**	**2,714**
	Percent	**0.2**	**6.6**	**36.6**	**35.0**	**14.9**	**6.7**	**100.0**

Note: HIV Disease – ICD-10 codes B20–B24.
Total percentage may not add up to 100 due to rounding. Non-residents are excluded.

TABLE 29
DEATHS DUE TO HIV DISEASE BY HEALTH SERVICE DELIVERY AREA
BRITISH COLUMBIA, 1992–2007

	Health Service Delivery Area	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	1992–2007 Number	Percent	Rate
11	East Kootenay	-	-	-	1	-	2	-	-	-	1	-	1	-	1	-	-	6	0.2	0.48
12	Kootenay Boundary	-	1	1	3	2	-	1	1	-	-	2	-	1	-	2	-	14	0.5	1.10
13	Okanagan	9	9	6	9	7	2	4	2	3	3	3	6	2	5	11	1	82	3.0	1.68
14	Thompson Cariboo Shuswap	3	4	3	-	3	2	2	2	2	6	2	4	6	2	4	3	48	1.8	1.42
21	Fraser East	4	6	7	6	7	1	5	3	3	2	4	1	5	6	4	1	65	2.4	1.68
22	Fraser North	15	22	25	21	15	8	6	7	11	8	10	10	8	7	10	7	190	7.0	2.30
23	Fraser South	14	12	18	17	23	6	4	11	7	11	10	8	5	12	9	13	180	6.6	1.94
31	Richmond	5	1	6	4	4	5	2	2	1	1	-	1	2	3	1	1	39	1.4	1.48
32	Vancouver	149	197	203	182	145	66	65	53	73	60	62	74	50	78	67	42	1,566	57.7	17.27
33	North Shore/ Coast Garibaldi	14	16	15	12	11	7	5	5	3	3	2	6	3	7	5	5	119	4.4	2.86
41	South Vancouver Island	20	21	28	17	21	10	10	13	7	9	3	8	9	9	16	11	212	7.8	3.90
42	Central Vancouver Island	16	6	13	14	6	4	3	4	8	4	4	4	5	6	3	6	106	3.9	2.79
43	North Vancouver Island	1	3	3	2	1	1	-	-	4	2	-	1	2	3	2	-	25	0.9	1.37
51	Northwest	1	1	-	2	1	-	-	-	-	-	-	-	1	2	-	2	10	0.4	0.74
52	Northern Interior	-	2	2	4	5	2	2	-	-	1	3	3	5	4	7	5	45	1.7	1.89
53	Northeast	-	-	1	1	-	-	1	-	-	-	1	-	1	-	-	-	5	0.2	0.49
	N.S.	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	2	0.1	
	PROVINCIAL TOTAL	**251**	**301**	**331**	**295**	**252**	**117**	**110**	**103**	**122**	**111**	**106**	**127**	**105**	**145**	**141**	**97**	**2,714**	**100.0**	**4.25**

Note: HSDA based on usual residence.
Rate per 100,000 population in specified area.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded. N.S. – Not stated.

External Causes of Death

Table 30 shows the number of deaths for males and females from "external causes" which include unintentional deaths as well as deaths due to suicide, homicide and those where intent was undetermined. Also shown are ASMRs. These rates of death per 10,000 standard population are used to compare statistics from other time periods and other jurisdictions. The *Glossary* explains ASMR and the *Methodology* section gives an example of the calculation method.

During 2007 there were 1,505 deaths due to external causes or approximately 48 external cause deaths for each 1,000 deaths in BC (see Table 30).

The break out by cause was:

- 387 were suicides
- 284 were motor vehicle accidents
- 314 were unintentional falls
- 255 were unintentional poisonings
- 33 were unintentional drownings
- 24 were homicides
- 208 were due to other external causes

More than two-thirds of deaths by external causes were males as shown in Table 30. The leading four causes of external deaths in males in 2007 (in ASMR rank order) were suicide, motor vehicle accidents, unintentional poisoning (mostly drug overdoses), and unintentional falls. For females, the leading four (in ASMR rank order) were: suicide, unintentional falls, motor vehicle accidents, and unintentional poisoning.

Table 31 shows the allocation of external death causes according to the Local Health Area where the deceased lived, not where the incident occurred. The highest ASMRs in 2007 are found in the following LHAs (with 5 or more deaths): Hope (13.96), Upper Skeena (11.34), Cariboo-Chilcotin (9.80), Vancouver Downtown-Eastside (9.26), and Salmon Arm (7.57).

Table 32 shows number of deaths from suicide classified by month of occurrence and by gender. Percentages across months are also given. In 2007 there were almost three times the number of male suicides than female suicides. The data for 2007 shows that February was the month with the fewest number of suicides (22) while July was the month with the highest number of suicides (43).

TABLE 30
EXTERNAL CAUSES OF DEATH BY GENDER
BRITISH COLUMBIA, 2007

Cause of Death	ICD-10 Code	Male		Female		Total	
		Number	ASMR	Number	ASMR	Number	ASMR
Motor vehicle accidents	V02-V04, V09, V12-V14, V190-V196, V20-V79, V803-V805, V820-V821, V823-V890, V892, V899, Y850	202	0.89	82	0.33	284	0.61
Other transport accidents	V01, V05-V06, V10-V11, V15-V18, V198-V199, V800-V802, V806-V809, V812-V819, V822-V829, V891, V893, V91, V93-V99, Y859	10	0.04	2	0.01	12	0.03
Accidental falls	W00-W19	152	0.57	162	0.40	314	0.47
Accident caused by machinery	W24, W28-W31	4	0.02	-	-	4	0.01
Accidental firearm discharge	W32-W34	1	0.01	2	0.01	3	0.01
Exposure to smoke, fire and flames	X00-X09	17	0.07	7	0.03	24	0.05
Accidental drowning (inc water transport)	V90, V92, W65-W74	31	0.13	2	0.01	33	0.07
Accidental poisoning	X40-X49	174	0.75	81	0.32	255	0.53
All other accidents	W20-W23, W25-W27, W35-W64, W75-W99, X10-X39, X50-X59, Y35-Y36, Y40-Y84, Y88	83	0.34	54	0.18	137	0.25
Suicide	X60-X84, Y870	283	1.19	104	0.43	387	0.80
Homicide	X85-Y09, Y871	16	0.08	8	0.04	24	0.06
External events of undetermined intent	Y10-Y34, Y872	10	0.04	4	0.01	14	0.02
Sequelae of other external causes	Y86, Y89	13	0.05	1	0.00	14	0.03
TOTAL		**996**	**4.17**	**509**	**1.76**	**1,505**	**2.93**

Note: ASMR – per 10,000 standard population (Canada 1991 Census).
Non-residents are excluded.

EXTERNAL CAUSES OF DEATH BY LOCAL HEALTH AREA, BRITISH COLUMBIA, 2007

Local Health Area		Motor Vehicle Accidents	Other Transport Accidents	Unintentional		Fire/ Flames	Unintentional Drowing	Suicide	Homicide	Other	Total	
				Poisoning	Falls						Deaths	ASMR
001	Fernie	3	-	-	-	-	-	2	-	-	5	3.70
002	Cranbrook	3	-	4	3	1	-	-	1	3	15	4.81
003	Kimberley	3	-	-	3	-	-	-	-	1	7	5.35
004	Windermere	2	-	-	-	-	-	1	-	1	4	3.43
005	Creston	-	-	1	3	-	-	2	-	1	7	3.22
006	Kootenay Lake	1	-	-	1	-	-	1	-	1	4	8.74
007	Nelson	2	-	1	3	-	1	1	-	3	11	3.51
009	Castlegar	1	-	1	1	-	-	-	-	-	3	2.44
010	Arrow Lakes	1	-	-	-	-	-	-	-	-	1	1.52
011	Trail	1	-	3	3	-	-	2	-	2	11	3.77
012	Grand Forks	2	-	-	1	-	-	-	-	-	3	3.29
013	Kettle Valley	-	-	-	1	-	-	2	-	-	3	4.35
014	Southern Okanagan	1	-	3	2	1	-	2	-	1	10	3.34
015	Penticton	-	-	6	9	-	-	2	1	3	21	2.65
016	Keremeos	1	-	-	-	-	-	-	-	-	1	3.35
017	Princeton	-	-	1	1	-	-	-	-	1	3	2.84
018	Golden	-	-	-	-	-	-	1	-	-	1	1.54
019	Revelstoke	1	-	-	-	-	-	1	-	1	3	2.82
020	Salmon Arm	9	-	2	-	-	1	7	-	1	20	7.57
021	Armstrong - Spallumcheen	2	-	-	1	-	-	-	-	-	3	2.50
022	Vernon	6	-	1	6	-	-	9	-	2	24	3.22
023	Central Okanagan	11	2	8	26	-	1	13	-	7	68	2.86
024	Kamloops	9	1	4	5	-	-	10	-	10	39	2.99
025	100 Mile House	5	-	1	-	-	-	1	-	1	8	6.62
026	North Thompson	1	-	1	-	-	-	-	-	1	3	8.54
027	Cariboo - Chilcotin	9	-	5	-	-	-	8	-	4	26	9.80
028	Quesnel	-	-	1	2	-	-	1	-	2	6	2.43
029	Lillooet	-	-	1	-	1	-	-	-	-	2	2.94
030	South Cariboo	2	-	-	1	-	-	-	-	-	3	2.88
031	Merritt	3	-	1	2	1	-	-	-	-	7	5.04
032	Hope	1	-	1	1	2	-	2	-	2	9	13.96
033	Chilliwack	6	-	4	6	1	-	7	-	1	25	2.63
034	Abbotsford	10	-	5	9	1	-	10	-	5	40	2.65
035	Langley	5	-	7	8	-	2	9	1	2	34	2.33
037	Delta	1	-	4	6	1	-	4	1	3	20	1.61
038	Richmond	4	-	3	3	-	3	14	-	5	32	1.60
040	New Westminster	5	1	2	4	-	1	7	1	1	22	2.91
041	Burnaby	3	-	12	12	-	2	16	3	8	56	2.19
042	Maple Ridge	5	2	9	2	1	2	11	-	2	34	3.40
043	Coquitlam	12	-	6	8	2	2	9	2	3	44	2.14
044	North Vancouver	4	1	6	10	-	1	8	-	3	33	2.03
045	West Vancouver-Bowen Is.	2	-	2	2	-	-	3	-	1	10	1.30
046	Sunshine Coast	4	-	-	6	-	-	3	-	2	15	3.28
047	Powell River	-	-	2	6	-	-	2	-	2	12	4.01
048	Howe Sound	5	-	-	3	-	-	4	-	-	12	3.95
049	Bella Coola Valley	2	-	-	-	-	1	-	-	-	3	12.85
050	Queen Charlotte	1	-	-	-	-	-	1	-	-	2	4.18
051	Snow Country	-	-	-	-	-	-	-	-	-	-	-
052	Prince Rupert	-	-	-	-	1	-	3	-	1	5	3.47
053	Upper Skeena	1	-	1	1	-	-	2	-	-	5	11.34
054	Smithers	1	-	1	3	-	-	1	-	2	8	4.89
055	Burns Lake	2	-	-	1	-	-	1	1	1	6	7.36
056	Nechako	6	-	1	-	-	-	2	-	-	9	5.33
057	Prince George	8	-	6	3	1	-	8	-	9	35	3.56
059	Peace River South	-	-	-	2	-	-	4	-	-	6	2.58
060	Peace River North	9	-	2	-	-	-	3	-	2	16	5.01
061	Greater Victoria	7	1	14	39	2	2	26	2	14	107	3.30
062	Sooke	5	-	1	1	1	-	6	-	1	15	2.11
063	Saanich	6	-	1	6	-	1	3	-	2	19	1.95
064	Gulf Islands	1	-	1	1	-	-	1	1	2	7	2.45
065	Cowichan	9	-	1	2	-	2	7	-	1	22	3.93
066	Lake Cowichan	-	-	-	-	-	-	-	-	-	-	-
067	Ladysmith	1	-	-	3	1	-	-	-	-	5	2.87
068	Nanaimo	6	-	1	8	1	1	11	-	3	31	2.51
069	Qualicum	9	1	-	11	-	-	2	-	2	25	3.83
070	Alberni	9	-	6	3	-	1	7	-	-	26	7.09
071	Courtenay	2	-	6	6	-	1	7	-	2	24	3.00
072	Campbell River	2	1	5	5	1	1	3	-	3	21	3.72
075	Mission	2	-	5	2	-	-	2	1	1	13	3.00
076	Agassiz - Harrison	1	-	-	1	-	-	-	-	1	3	2.95
077	Summerland	-	-	-	4	-	-	-	-	-	4	0.91
078	Enderby	1	-	-	-	-	1	-	-	4	6	6.13
080	Kitimat	2	-	1	-	-	-	1	-	-	4	2.84
081	Fort Nelson	-	-	1	-	-	-	1	-	-	2	2.44
083	Central Coast	-	-	-	-	-	-	-	-	1	1	6.37
084	Vancouver Island West	1	-	-	-	-	-	-	-	-	1	4.11
085	Vancouver Island North	-	1	-	-	1	-	1	1	-	4	2.44
087	Stikine	-	-	-	-	-	-	-	-	-	-	-
088	Terrace	5	-	-	-	-	-	4	-	1	10	5.47
092	Nisga'a	-	-	1	-	-	-	2	-	-	3	17.60
094	Telegraph Creek	-	-	-	-	-	-	-	-	1	1	10.92
161	Vancouver - City Centre	3	-	9	3	-	1	20	-	5	41	3.09
162	Vancouver - Downtown E.side	3	-	39	5	-	1	17	-	4	69	9.26
163	Vancouver - North East	4	-	4	5	1	-	4	1	2	21	1.60
164	Vancouver - Westside	1	-	4	8	-	1	12	-	6	32	1.79
165	Vancouver - Midtown	2	-	9	5	-	1	8	1	4	30	2.96
166	Vancouver - South	3	-	2	12	-	-	10	-	2	29	1.59
201	Surrey	19	1	20	9	2	2	27	3	5	88	2.39
202	South Surrey/White Rock	4	-	2	5	-	-	5	-	2	18	2.18
	PROVINCIAL TOTAL	**284**	**12**	**255**	**314**	**24**	**33**	**387**	**24**	**172**	**1,505**	**2.93**
	PERCENT	**18.9**	**0.8**	**16.9**	**20.9**	**1.6**	**2.2**	**25.7**	**1.6**	**11.4**	**100.0**	

Notes for table follow table 32.

TABLE 32
SUICIDE DEATHS BY MONTH AND GENDER
BRITISH COLUMBIA, 2007

Month	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
January	33	11.7	9	8.7	42	10.9
February	12	4.2	10	9.6	22	5.7
March	22	7.8	6	5.8	28	7.2
April	28	9.9	8	7.7	36	9.3
May	25	8.8	9	8.7	34	8.8
June	26	9.2	4	3.8	30	7.8
July	27	9.5	16	15.4	43	11.1
August	16	5.7	9	8.7	25	6.5
September	25	8.8	13	12.5	38	9.8
October	18	6.4	11	10.6	29	7.5
November	29	10.2	6	5.8	35	9.0
December	22	7.8	3	2.9	25	6.5
TOTAL	**283**	**100.0**	**104**	**100.0**	**387**	**100.0**

Note: Suicide Deaths – ICD-10 codes X60–X84, Y87.0.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.

Notes to Table 31

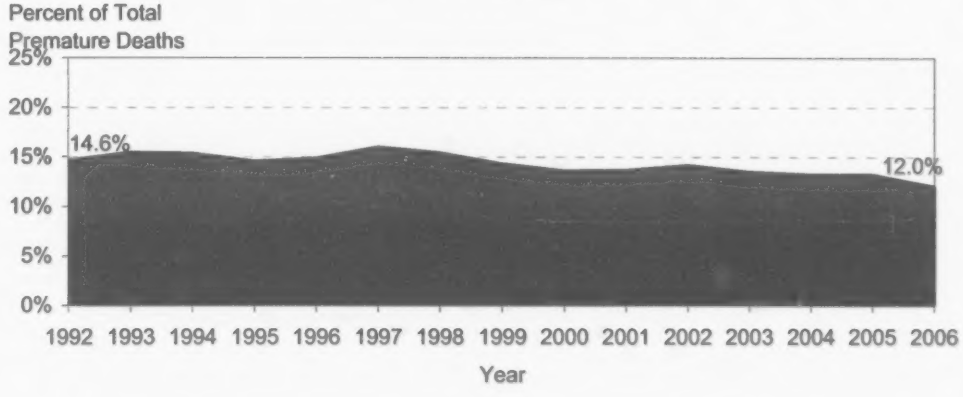
Note: Based on usual residence. ASMR – rate per 10,000 standard population (Canada 1991 Census). PERCENT – Provincial total for each cause as a percent of the Provincial total for all deaths from external causes. Other is comprised of accident caused by machinery, accidental firearm discharge, all other accidents, external event of undetermined intent, and sequelae of other external causes. Total includes residents with unknown LHA.

Vital Statistics Information Box

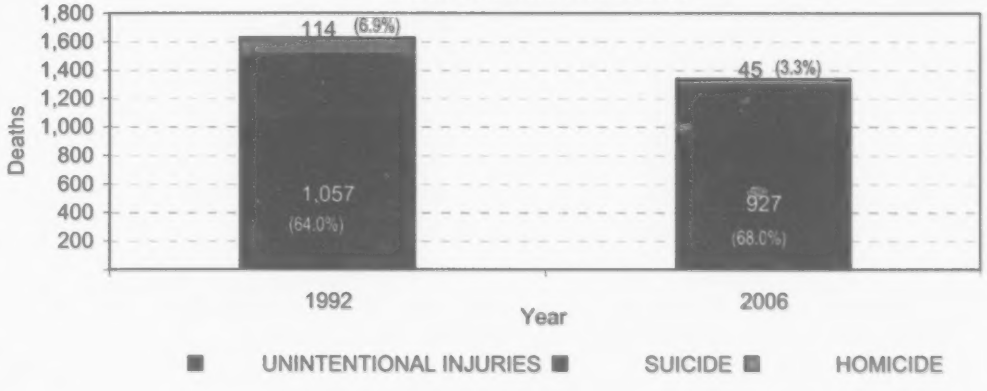
Premature (<75 years) External Causes of Death in British Columbia, 1992 to 2006

From 1992 to 2006, deaths among those under the age of 75 have accounted for just 41.3 percent; however, 80.1 percent from external causes were among those under the age of 75. The total number of deaths attributable to external cause has fallen from 2,027 in 1992 to 1,777 in 2006, and among those under the age of 75 the number of deaths has fallen from 1,651 to 1,363. The share of premature deaths attributable to external cause has fallen from 14.6 percent in 1992 to 12.0 percent in 2006. Unintentional injuries account for the vast majority of deaths from external causes of death with 68.0 percent external cause deaths among those under the age of 75 being from unintentional injuries.

Share of Premature Mortality Attributable to External Causes, British Columbia 1992 to 2006



Deaths Under the Age of 75 Years due to Unintentional Injuries, Homicide and Suicide, British Columbia 1992 to 2006



Mortality Due to All Causes of Death

Table 33 shows the number of deaths from all causes in each LHA not only for 2007, but also for the previous 5 year period. The Standardized Mortality Ratio (SMR) columns compare the actual number of deaths in the LHA (observed) with the number that would be expected if the LHA had the same age-specific death rates as the whole province.

Table 33 also shows 95 percent confidence intervals for the SMR, which provides a measure of its variability. In 2007 and the previous 5 years, 39 LHAs had statistically significant ratios: 27 high and 12 low.

In 2007, the LHAs with the 5 highest statistically significant SMR were: Nisga'a (2.57), Vancouver Island North (1.93), Queen Charlotte (1.67), Nechako (1.56) and North Thompson (1.50).

Figure 38 shows the SMRs grouped into colour coded quintiles. The map provides an immediately apparent view of the provincial variation of SMRs. There was no particular pattern although low ratios were concentrated mostly in the southeast and southwest.

Vital Statistics Information Box

Deaths Aged 65+ by Gender and Health Service Delivery Area

British Columbia, 2007

Health Service Delivery Area	Gender	Age at Death									%
		65-69	70-74	75-79	80-84	85-89	90-94	95-99	100+	Total	65+
11 East Kootenay	M	27	34	42	51	37	28	8	0	312	72.8%
	F	23	27	21	42	63	49	12	6	285	85.3%
12 Kootenay Boundary	M	43	47	66	64	51	30	13	0	425	73.9%
	F	25	31	41	60	72	64	19	3	376	83.8%
13 Okanagan	M	123	168	253	278	293	168	55	6	1,692	79.4%
	F	84	128	202	242	338	269	100	13	1,587	86.7%
14 Thompson Cariboo Shuswap	M	95	118	152	141	118	46	15	0	965	71.0%
	F	70	70	94	127	146	104	22	5	811	78.7%
21 Fraser East	M	71	116	163	150	167	78	21	4	1,060	72.6%
	F	58	72	101	180	190	147	55	14	993	82.3%
22 Fraser North	M	106	175	252	274	247	132	34	10	1,693	72.7%
	F	93	119	162	281	310	243	127	25	1,634	83.2%
23 Fraser South	M	166	177	258	327	315	199	50	13	2,056	73.2%
	F	116	143	242	346	420	287	134	34	2,104	81.8%
31 Richmond	M	32	41	57	81	59	33	10	0	417	75.1%
	F	24	35	43	85	114	82	36	6	492	86.4%
32 Vancouver	M	134	219	285	268	273	130	62	10	1,986	69.5%
	F	75	112	173	277	364	310	157	41	1,823	82.8%
33 North Shore/Coast Garibaldi	M	78	86	140	165	137	94	24	4	979	74.4%
	F	59	64	90	176	208	158	72	16	964	87.4%
41 South Vancouver Island	M	94	119	200	268	307	180	46	7	1,568	77.9%
	F	70	109	143	286	367	323	145	38	1,702	87.0%
42 Central Vancouver Island	M	117	136	192	224	188	104	26	1	1,312	75.3%
	F	61	106	113	176	240	166	54	10	1,121	82.6%
43 North Vancouver Island	M	62	57	87	73	60	30	6	0	509	73.7%
	F	38	34	52	51	68	56	33	8	429	79.3%
51 Northwest	M	36	36	49	32	19	6	2	1	290	62.4%
	F	21	13	19	27	38	15	7	1	206	68.4%
52 Northern Interior	M	54	70	80	58	46	26	5	5	528	65.2%
	F	27	45	49	63	68	34	14	2	423	71.4%
53 Northeast	M	18	35	22	25	18	10	2	1	205	63.9%
	F	12	15	24	26	22	10	4	2	146	78.8%
Provincial Total	**M**	**1,256**	**1,634**	**2,299**	**2,479**	**2,335**	**1,294**	**379**	**62**	**16,005**	**73.3%**
	F	**856**	**1,123**	**1,569**	**2,445**	**3,028**	**2,317**	**991**	**224**	**15,100**	**83.1%**

Note: %65+ is the percentage of deaths aged 65 or older out of all deaths to residents of the specified area by gender.
Provincial Total includes residents with unknown addresses.

Table 33

STANDARDIZED MORTALITY RATIO - ALL CAUSES OF DEATH BY LOCAL HEALTH AREA, BRITISH COLUMBIA, 2002–2006 AND 2007

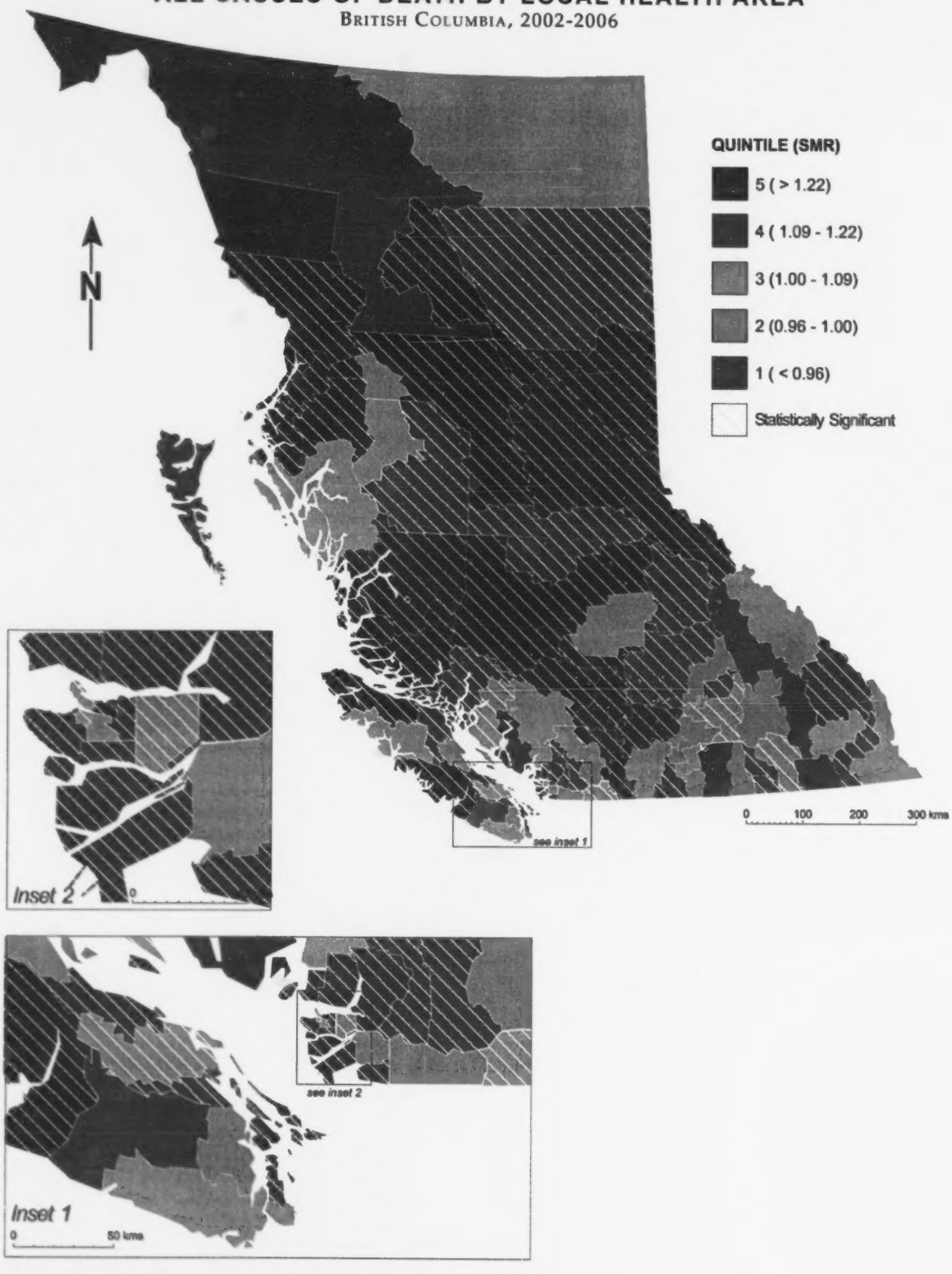
Local Health Area		2002–2006 Observed Deaths	SMR	(p)	2007 Observed Deaths	Expected Deaths	SMR	(p)	95% Confidence Interval Lower	Upper
001	Fernie	398	0.97		80	82.26	0.97		0.77	- 1.21
002	Cranbrook	970	1.11	*	219	185.40	1.18	*	1.03	- 1.35
003	Kimberley	407	1.03		61	77.67	0.79		0.60	- 1.01
004	Windermere	244	0.82	*	48	66.34	0.72	*	0.53	- 0.96
005	Creston	638	0.93		145	140.38	1.03		0.87	- 1.22
006	Kootenay Lake	137	0.87		41	32.44	1.26		0.91	- 1.71
007	Nelson	956	1.07	*	207	177.77	1.16	*	1.01	- 1.33
009	Castlegar	618	1.20	*	120	104.64	1.15		0.95	- 1.37
010	Arrow Lakes	232	1.02		50	44.56	1.12		0.83	- 1.48
011	Trail	1,074	1.16	*	241	185.01	1.30	*	1.14	- 1.48
012	Grand Forks	454	1.00		120	94.95	1.26	*	1.05	- 1.51
013	Kettle Valley	127	0.85		22	30.61	0.72		0.45	- 1.09
014	Southern Okanagan	1,276	1.01		251	255.58	0.98		0.86	- 1.11
015	Penticton	2,577	1.04		474	505.82	0.94		0.85	- 1.03
016	Keremeos	325	1.13	*	64	61.39	1.04		0.80	- 1.33
017	Princeton	257	1.07		63	51.89	1.21		0.93	- 1.55
018	Golden	177	1.04		44	36.95	1.19		0.87	- 1.60
019	Revelstoke	271	1.09		51	50.54	1.01		0.75	- 1.33
020	Salmon Arm	1,566	1.01		324	328.71	0.99		0.88	- 1.10
021	Armstrong - Spallumcheen	376	0.97		77	81.94	0.94		0.74	- 1.17
022	Vernon	2,936	1.07	*	644	578.52	1.11	*	1.03	- 1.20
023	Central Okanagan	7,070	0.99		1,482	1,515.97	0.98		0.93	- 1.03
024	Kamloops	3,991	1.16	*	814	741.43	1.10	*	1.02	- 1.18
025	100 Mile House	579	1.08		136	114.67	1.19		1.00	- 1.40
026	North Thompson	143	1.21	*	42	27.98	1.50	*	1.08	- 2.03
027	Cariboo - Chilcotin	818	1.23	*	192	144.97	1.32	*	1.14	- 1.53
028	Quesnel	819	1.18	*	177	148.01	1.20	*	1.03	- 1.39
029	Lillooet	195	1.46	*	32	27.54	1.16		0.79	- 1.64
030	South Cariboo	373	1.31	*	70	58.77	1.19		0.93	- 1.50
031	Merritt	489	1.36	*	115	77.41	1.49	*	1.23	- 1.78
032	Hope	469	1.35	*	110	74.58	1.47	*	1.21	- 1.78
033	Chilliwack	3,210	1.09	*	693	625.18	1.11	*	1.03	- 1.19
034	Abbotsford	4,469	1.01		897	911.08	0.98		0.92	- 1.05
035	Langley	4,024	1.02		898	841.46	1.07		1.00	- 1.14
037	Delta	2,967	0.96	*	613	657.55	0.93		0.86	- 1.01
038	Richmond	4,307	0.77	*	909	1,238.62	0.73	*	0.69	- 0.78
040	New Westminster	2,447	1.11	*	504	442.16	1.14	*	1.04	- 1.24
041	Burnaby	6,790	0.96	*	1,373	1,467.86	0.94	*	0.89	- 0.99
042	Maple Ridge	2,724	1.16	*	527	503.63	1.05		0.96	- 1.14
043	Coquitlam	4,661	0.95	*	923	1,055.04	0.87	*	0.82	- 0.93
044	North Vancouver	4,068	0.92	*	840	918.52	0.91	*	0.85	- 0.98
045	West Vancouver-Bowen Is.	2,337	0.83	*	457	571.54	0.80	*	0.73	- 0.88
046	Sunshine Coast	1,245	0.95		307	282.70	1.09		0.97	- 1.21
047	Powell River	963	1.09	*	192	184.50	1.04		0.90	- 1.20
048	Howe Sound	567	1.03		119	116.96	1.02		0.84	- 1.22
049	Bella Coola Valley	104	1.47	*	17	14.57	1.17		0.68	- 1.87
050	Queen Charlotte	129	1.14		41	24.49	1.67	*	1.20	- 2.27
051	Snow Country	21	1.64	*	3	3.01	1.00		0.20	- 2.91
052	Prince Rupert	452	1.24	*	98	76.33	1.28	*	1.04	- 1.56
053	Upper Skeena	121	1.08		24	23.87	1.01		0.64	- 1.50
054	Smithers	395	1.06		104	78.28	1.33	*	1.09	- 1.61
055	Burns Lake	260	1.20	*	56	45.35	1.23		0.93	- 1.60
056	Nechako	487	1.31	*	121	77.37	1.56	*	1.30	- 1.87
057	Prince George	2,561	1.23	*	597	452.54	1.32	*	1.22	- 1.43
059	Peace River South	814	1.24	*	178	138.75	1.28	*	1.10	- 1.49
060	Peace River North	685	1.18	*	153	122.17	1.25	*	1.06	- 1.47
061	Greater Victoria	10,734	0.99		2,154	2,151.18	1.00		0.96	- 1.04
062	Sooke	1,614	1.03		306	340.02	0.90		0.80	- 1.01
063	Saanich	3,062	0.83	*	665	778.74	0.85	*	0.79	- 0.92
064	Gulf Islands	640	0.76	*	145	180.05	0.81	*	0.68	- 0.95
065	Cowichan	2,200	1.02		471	460.03	1.02		0.93	- 1.12
066	Lake Cowichan	230	1.10		36	44.50	0.81		0.57	- 1.12
067	Ladysmith	927	1.11	*	217	182.35	1.19	*	1.04	- 1.36
068	Nanaimo	4,239	1.07	*	925	859.81	1.08	*	1.01	- 1.15
069	Qualicum	2,316	0.91	*	503	553.09	0.91	*	0.83	- 0.99
070	Alberni	1,365	1.23	*	281	235.36	1.19	*	1.06	- 1.34
071	Courtenay	2,428	1.01		510	525.97	0.97		0.89	- 1.06
072	Campbell River	1,370	1.12	*	314	264.71	1.19	*	1.06	- 1.32
075	Mission	1,314	1.19	*	286	233.20	1.23	*	1.09	- 1.38
076	Agassiz - Harrison	289	0.98		67	64.23	1.04		0.81	- 1.32
077	Summerland	717	0.98		139	149.93	0.93		0.78	- 1.09
078	Enderby	358	1.14	*	85	65.11	1.31	*	1.04	- 1.61
080	Kitimat	252	1.05		67	51.26	1.31	*	1.01	- 1.66
081	Fort Nelson	81	1.04		20	14.97	1.34		0.82	- 2.06
083	Central Coast	79	2.61	*	11	6.49	1.69		0.84	- 3.03
084	Vancouver Island West	47	0.99		11	10.84	1.02		0.51	- 1.82
085	Vancouver Island North	349	1.41	*	103	53.29	1.93	*	1.58	- 2.34
087	Stikine	22	0.93		4	5.11	0.78		0.21	- 2.00
088	Terrace	589	1.28	*	132	98.45	1.34	*	1.12	- 1.59
092	Nisga'a	66	1.91	*	18	7.00	2.57	*	1.52	- 4.07
094	Telegraph Creek	18	1.41		5	2.61	1.92		0.62	- 4.47
161	Vancouver - City Centre	3,184	1.08	*	634	616.19	1.03		0.95	- 1.11
162	Vancouver - Downtown E.side	2,559	1.30	*	509	402.91	1.26	*	1.16	- 1.38
163	Vancouver - North East	2,909	0.87	*	563	701.58	0.80	*	0.74	- 0.87
164	Vancouver - Westside	3,706	0.81	*	780	922.76	0.85	*	0.79	- 0.91
165	Vancouver - Midtown	2,411	0.98		487	500.96	0.97		0.89	- 1.06
166	Vancouver - South	4,123	0.84	*	831	1,008.15	0.82	*	0.77	- 0.88
201	Surrey	7,919	1.01		1,752	1,681.79	1.04		0.99	- 1.09
202	South Surrey/White Rock	4,228	0.92	*	897	954.15	0.94		0.88	- 1.00
	PROVINCIAL TOTAL	**148,219**	**1.00**		**31,105**	**31,105.00**	**1.00**		**0.99**	- **1.01**

Note: *Statistical testing indicates that observed deaths are significantly different from the expected deaths (p<0.05, two tailed). Total includes residents with unknown LHA. Observed deaths include unknown gender.

FIGURE 38

ALL CAUSES OF DEATH BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 2002-2006



Note: Refer to Figure 1 to clarify geographical location of LHAs.

Potential Years of Life Lost

Potential Years of Life Lost (PYLL) gives an indication of "premature" death by totalling the number of years British Columbians "lost" prior to age 75 years. For example, an infant death at the age of 6 months would have lost 74.5 years of life. The upper limit of 75 is used for both genders. PYLL indicates the importance of the various causes of premature death by giving more weight to deaths that occurred at younger ages than those that occurred later in life. Bear in mind that the PYLL weighted according to age. Thus a death at a younger age contributes more to total PYLL than a death at an older age.

The tables and figures in this section portray the impact of premature mortality. The *Glossary* further defines *PYLL*. The precise calculation methods for the various indicators derived from PYLL are referenced in the tables in this section and are shown in the *Methodology* section.

Table 34 shows several PYLL based indicators for deaths of those under 75 years old contrasted with total deaths and ASMR for all ages for various causes of death. The *No. of Deaths* column shows the number of persons under 75 years of age who have died due to each cause group. Total PYLL measures the total years all decedents would have lived had they reached the age of 75. Percent of PYLL shows each disease category's proportion of the Total PYLL for all causes. Average PYLL is the disease category's Total PYLL divided by number of deaths. PYLLSR is the rate of PYLL per 1,000 standard population. See *PYLL Standardized Rate* in the *Glossary* and the *Methodology* section for computation details.

Because PYLL focuses on premature mortality rather than on the simple fact of death, it is useful in assessing causes of death in terms of the extent to which each contributes to reduction in lifespan. In Table 34 the column labelled Average PYLL is helpful in exploring this effect. A larger value in this column indicates a more premature death due to this category.

Motor vehicle accidents, which claim many young lives, have a high value for average PYLL at 37.2 years. Malignant neoplasms, on the other hand, although claiming many lives (4,595 under the age of 75) have a relatively low average PYLL at 12.7 years since malignant neoplasms tend to afflict older individuals more frequently.

Figure 39, by directly and visually contrasting PYLLSR and ASMR for several major causes of death, allows one to compare the profiles of the two sides of the graph, where there are significant differences in the impact of the various causes of death on PYLL and overall death rate. The clearest contrast is for external causes of death: a relatively moderate ASMR but very high PYLLSR. This clearly shows the contribution of "external causes" to premature mortality.

In Table 35, causes of death in 2007 have been ranked according to the Total PYLL for all genders in 4 age groups. The central portion of the table indicates the number of deaths and number of years lost for males, females, and both genders. The PYLL column shows all the years lost in the age group due to each cause category. PYLL % indicates the percent of all PYLL in the age group due to each cause.

Most of the PYLL under 15 years was due to conditions originating in the period around birth (see Table 35). The majority of those deaths occurred less than 7 days after birth (see Table 27) and were more frequent among males than females (see Table 21).

Motor vehicle accidents (MVA) had the highest PYLL in the age group of 15 to 24 year olds. Most of these deaths were to males and therefore the majority of the PYLL in this age group was attributable to males as shown in Table 35.

In the age group of 25 to 44 year olds, among females, malignant neoplasms were responsible for almost the same number of PYLL as all the other major causes combined. Among males, suicides accounted for the largest number of PYLL, although PYLL due to MVA and malignant neoplasms were high among males as well. Note that male deaths due to MVA were responsible for a greater number of deaths than in the 15 to 24 year age group but fewer PYLL.

Malignant neoplasms accounted for the largest share of PYLL for both genders in the 45-74 year age group (see Table 35).

Figure 40 presents the PYLLSR values from Table 35 so the gender differences are immediately apparent.

Males in the four age groups have a higher PYLL than females, although the standardized PYLL rates due to malignant neoplasms were similar in the two adult age groups.

External causes have been covered in a previous section but Table 36 presents their geographic distribution in terms of PYLL index. These causes, in general are considered to be more preventable than 'natural' causes of death and therefore attract attention because of the greater potential for their reduction.

Table 36 shows PYLL due to external causes of death by LHA for the period 2002 through 2006 and for the year 2007. It also displays the observed number of years of lost life in each LHA for both periods and, for 2007, the expected PYLL based on the age distribution in the LHA adjusted to the provincial age and gender specific rate.

The PYLL Index is the ratio of observed to expected deaths. The (p) column displays a '*' or '+' when the ratio falls outside of a 95 percent confidence interval. PYLL index is useful for comparing a region's PYLL experience to the Province. However, PYLLSR is preferred when making comparisons to other regions. See *Expected Potential Years of Life Lost* and *PYLL Index (PYLLI)* in the *Glossary* and the *Methodology* section for a computational example.

In the 5 year period, over half of the LHAs (47) had statistically significant observed versus expected deaths and 33 of those were high. Only one of the more densely populated areas in the lower mainland (Vancouver Downtown Eastside) was statistically significant and high.

Figure 41 displays BC's 89 LHAs, coloured according to their level of PYLLI for the years 2002-2006. They are grouped into quintiles, five groups from those with the lowest (dark grey) to those with the highest PYLLI values (deep red). Looking at this map, the pattern is one of an urban/rural distinction. The more urban areas, in general, are in the quintiles with lower PYLLI values.

TABLE 34
POTENTIAL YEARS OF LIFE LOST AND AGE STANDARDIZED MORTALITY RATES BY SELECTED CAUSES OF DEATH
BRITISH COLUMBIA, 2007

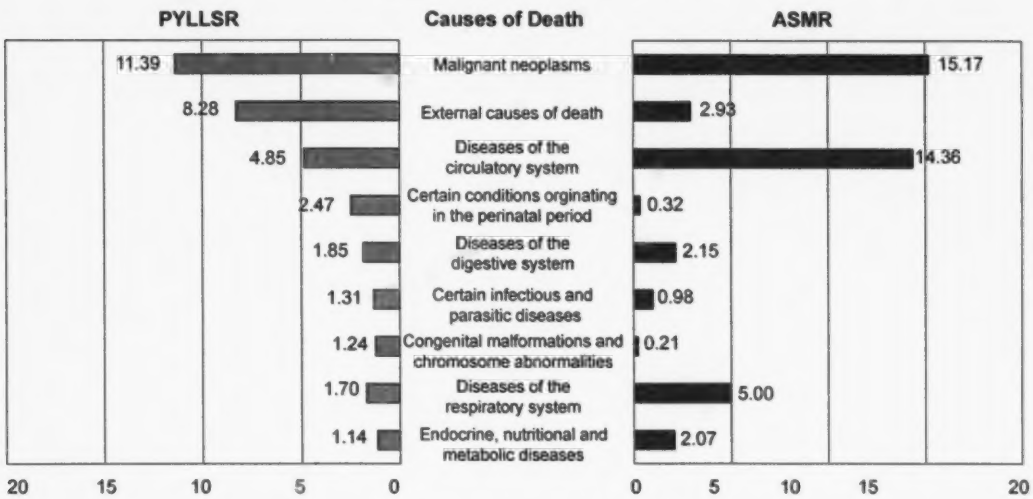
Cause of Death	ICD-10 Code(s)	PYLL (Age Under 75 Years) No. of Deaths	Total PYLL	Percent of PYLL	Average PYLL	PYLLSR	Mortality (All Ages) No. of Deaths	Percent of Deaths	ASMR
Certain infectious and parasitic diseases	A00-B99	311	6,291.5	3.2	20.2	1.31	584	1.9	0.98
- HIV disease	B20-B24	96	2,590.0	1.3	27.0	0.58	97	0.3	0.19
Malignant neoplasms	C00-C97	4,595	58,267.0	30.0	12.7	11.39	8,861	28.5	15.17
- Malignant neoplasm of trachea and lung	C33-C34	1,254	13,070.0	6.7	10.4	2.45	2,313	7.4	4.04
- Malignant neoplasm of female breast	C500-C509	403	6,372.5	3.3	15.8	2.41	635	2.0	2.03
- Malignant neoplasm of colon and rectum	C18-C21	442	5,505.0	2.8	12.5	1.06	930	3.0	1.56
Endocrine nutritional and metabolic diseases	E00-E89	455	5,647.0	2.9	12.4	1.14	1,277	4.1	2.07
- Diabetes mellitus	E10-E14	348	3,930.0	2.0	11.3	0.76	1,020	3.3	1.65
Diseases of the circulatory system	I00-I99	2,125	24,632.5	12.7	11.6	4.85	9,515	30.6	14.36
- Ischemic heart diseases	I20-I25	1,159	13,022.5	6.7	11.2	2.47	4,417	14.2	6.79
- Cerebrovascular diseases	I60-I69	443	4,937.5	2.5	11.1	0.97	2,313	7.4	3.45
Diseases of the respiratory system	J00-J98, U049	738	8,181.0	4.2	11.1	1.70	3,277	10.5	5.00
- Pneumonia/Influenza (excluding hypostatic)	J09-J181, J188, J189	186	2,886.0	1.5	15.5	0.64	1,275	4.1	1.82
- Chronic Pulmonary Disease	J40-J44	386	3,155.0	1.6	8.2	0.61	1,346	4.3	2.15
Diseases of the digestive system	K00-K93	614	9,516.5	4.9	15.5	1.85	1,328	4.3	2.15
- Chronic liver disease/cirrhosis	K70, K73-74, K760-K761	325	5,657.5	2.9	17.4	1.03	380	1.2	0.66
Congenital malformations and chromosome abnormalities	Q00-Q99	69	3,771.0	1.9	54.7	1.24	82	0.3	0.21
Certain conditions originating in the perinatal period	P00-P96	93	6,882.0	3.5	74.0	2.47	93	0.3	0.32
External causes of death	V01-Y98	1,105	33,936.0	17.5	30.7	8.28	1,505	4.8	2.93
- Motor vehicle accidents	V02-V04, V09, V12-V14, V190-V196, V20-V79, V803-V805, V820-V821, V823-V890, V892, V899, Y850	251	9,347.0	4.8	37.2	2.32	284	0.9	0.61
- Suicide	X60-X84, Y870	357	11,037.5	5.7	30.9	2.66	387	1.2	0.80
Other causes[1]		1,578	36,825.0	19.0	23.3	8.90	4,601	14.8	7.41
All causes		**11,683**	**193,949.5**	**100.0**	**16.6**	**43.12**	**31,105**	**100.0**	**50.59**

Note: PYLL – denotes the total number of years of life lost from an established life expectancy (75 years).
PYLLSR – PYLL per 1,000 standard population (Canada 1991 Census).
ASMR – per 10,000 standard population (Canada 1991 Census).
[1]Other causes includes undetermined and pending.
Total percentage may not add up to 100 due to rounding. Non-residents are excluded.
The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

FIGURE 39

POTENTIAL YEARS OF LIFE LOST AND AGE STANDARDIZED MORTALITY RATES BY SELECTED CAUSES OF DEATH

BRITISH COLUMBIA, 2007



Note: PYLLSR - Potential Years of Life Lost Standardized Rate (age under 75 years) per 1,000 standard population.
ASMR - Age Standardized Mortality Rate per 10,000 standard population.

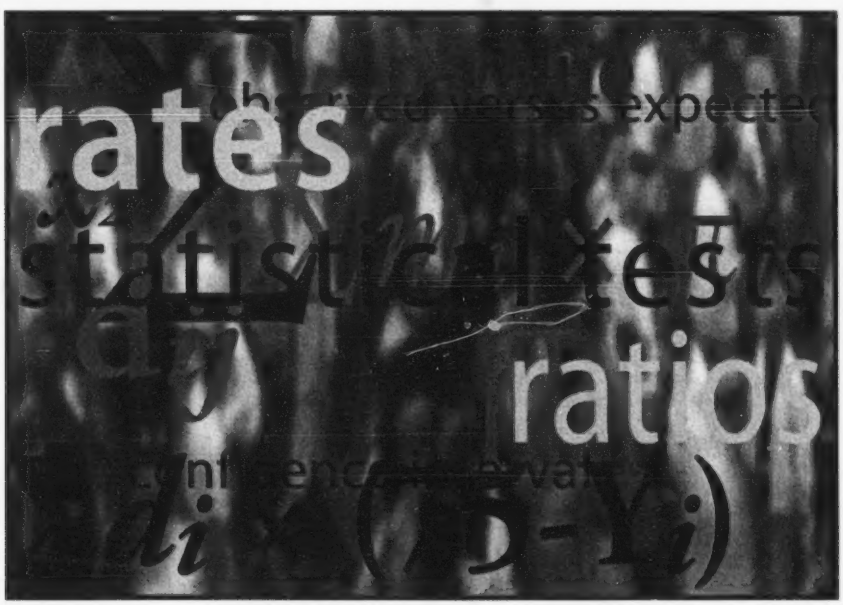


TABLE 35
POTENTIAL YEARS OF LIFE LOST BY AGE GROUP AND MAJOR CAUSES OF DEATH (AGE UNDER 75 YEARS)
BRITISH COLUMBIA, 2007

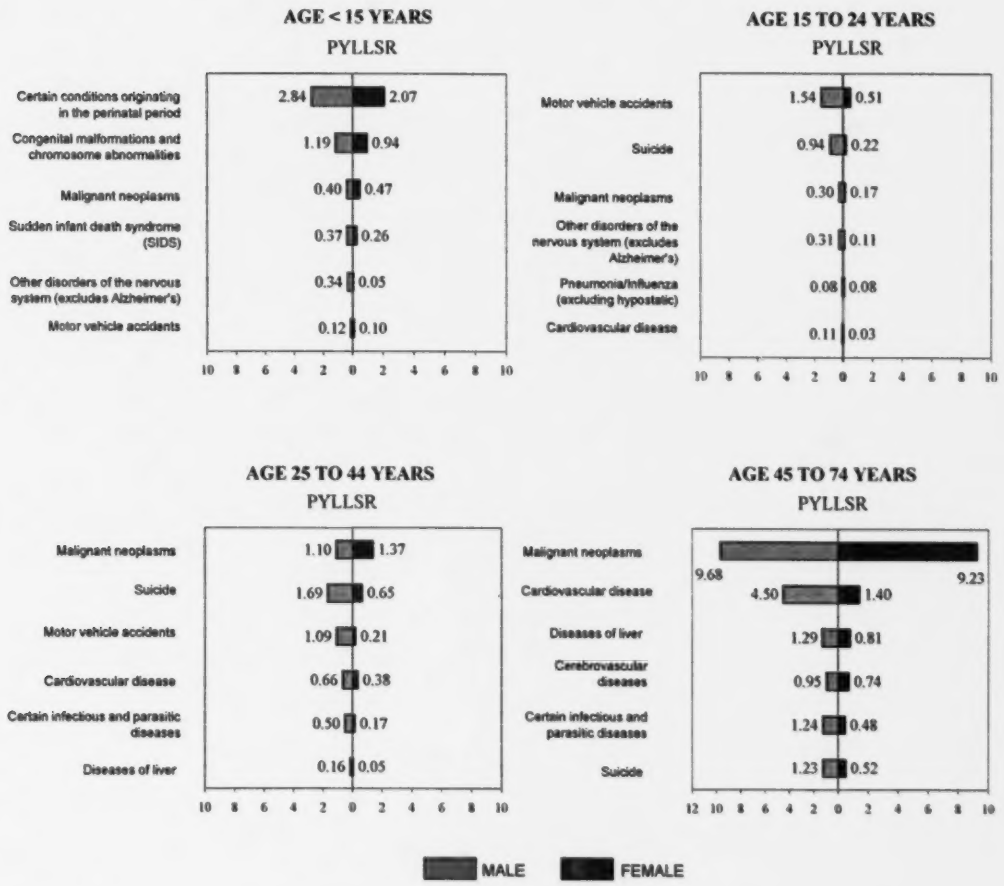
Cause of Death	ICD-10 Code(s)	Male				Female				Total			
		Deaths	PYLL	PYLL %	PYLLSR	Deaths	PYLL	PYLL %	PYLLSR	Deaths	PYLL	PYLL %	PYLLSR
Under 15 Years Old													
Certain conditions originating in the perinatal period	P00-P96	53	3,948.5	37.4	2.84	39	2,891.0	39.1	2.07	92	6,839.5	38.1	2.45
Congenital malformations and chromosome abnormalities	Q00-Q99	23	1,687.0	16.0	1.19	18	1,324.0	17.9	0.94	41	3,011.0	16.8	1.06
Malignant neoplasms	C00-C97	9	618.0	5.8	0.40	11	736.5	10.0	0.47	20	1,354.5	7.5	0.44
Sudden infant death syndrome (SIDS)	R95	7	521.5	4.9	0.37	5	370.0	5.0	0.26	12	891.5	5.0	0.32
Other disorders of the nervous system (ext. Alzheimer's)	G00-G25, G31-G99	7	500.0	4.7	0.34	1	74.5	1.0	0.05	8	574.5	3.2	0.20
Motor vehicle accidents	V02-V04, V09, V12-V14, V190-V196, V20-V79, V803-V805, V820-V821, V823-V890, V892, V899, Y850	3	197.0	1.9	0.12	3	187.5	2.5	0.10	6	384.5	2.1	0.11
Other causes[1]		44	3,096.0	29.3	2.07	26	1,808.0	24.5	1.20	70	4,904.0	27.3	1.64
All causes		**146**	**10,568.0**	**100.0**	**7.33**	**103**	**7,391.5**	**100.0**	**5.11**	**249**	**17,959.5**	**100.0**	**6.22**
15-24 Years Old													
Motor vehicle accidents	V02-V04, V09, V12-V14, V190-V196, V20-V79, V803-V805, 820-V821, V823-V890, V892, V899, Y850	56	3,060.0	26.7	1.54	18	1,000.0	21.4	0.51	74	4,060.0	25.2	1.03
Suicide	X60-X84, Y870	35	1,872.5	16.3	0.94	8	440.0	9.4	0.22	43	2,312.5	14.3	0.58
Malignant neoplasms	C00-C97	11	592.5	5.2	0.30	6	330.0	7.1	0.17	17	922.5	5.7	0.23
Other disorders of the nervous system (ext. Alzheimer's)	G00-G25, G31-G99	11	607.5	5.3	0.31	4	225.0	4.8	0.11	15	832.5	5.2	0.21
Pneumonia/Influenza (excluding hypostatic)	J09-J181, J188, J189	3	157.5	1.4	0.08	3	162.5	3.5	0.08	6	320.0	2.0	0.08
Cardiovascular disease	I00-I51	4	215.0	1.9	0.11	1	57.5	1.2	0.03	5	272.5	1.7	0.07
Other causes[1]		91	4,952.5	43.2	2.49	45	2,452.5	52.5	1.24	136	7,405.0	45.9	1.87
All causes		**211**	**11,457.5**	**100.0**	**5.76**	**85**	**4,667.5**	**100.0**	**2.37**	**296**	**16,125.0**	**100.0**	**4.07**
25-44 Years Old													
Malignant neoplasms	C00-C97	90	3,265.0	11.5	1.10	115	4,167.5	27.7	1.37	205	7,432.5	17.1	1.24
Suicide	X60-X84, Y870	91	3,607.5	12.7	1.69	40	1,535.0	10.2	0.65	131	5,142.5	11.8	1.17
Motor vehicle accidents	V02-V04, V09, V12-V14, V190-V196, V20-V79, V803-V805, V820-V821, V823-V890, V892, V899, Y850	60	2,390.0	8.4	1.09	22	785.0	5.2	0.21	82	3,175.0	7.3	0.65
Cardiovascular disease	I00-I51	52	1,910.0	6.7	0.66	22	850.0	5.7	0.38	74	2,760.0	6.4	0.52
Certain infectious and parasitic diseases	A00-B99	39	1,422.5	5.0	0.50	13	497.5	3.3	0.17	52	1,920.0	4.4	0.33
Diseases of liver	K70-K76	17	597.5	2.1	0.16	11	372.5	2.5	0.05	28	970.0	2.2	0.10
Other causes[1]		397	15,227.5	53.6	6.59	179	6,817.5	45.4	2.73	576	22,045.0	50.7	4.65
All causes		**746**	**28,420.0**	**100.0**	**11.79**	**402**	**15,025.0**	**100.0**	**5.56**	**1,148**	**43,445.0**	**100.0**	**8.66**
45-74 Years Old													
Malignant neoplasms	C00-C97	2,364	25,580.0	35.9	9.68	1,989	22,977.5	50.9	9.23	4,353	48,557.5	41.7	9.48
Cardiovascular disease	I00-I51	1,066	11,710.0	16.4	4.50	393	3,397.5	7.5	1.40	1,459	15,107.5	13.0	2.98
Diseases of liver	K70-K76	221	3,382.5	4.7	1.29	128	1,975.0	4.4	0.81	349	5,357.5	4.6	1.05
Cerebrovascular diseases	I60-I69	237	2,467.5	3.5	0.95	183	1,612.5	3.6	0.74	420	4,080.0	3.5	0.85
Certain infectious and parasitic diseases	A00-B99	178	2,875.0	4.0	1.24	75	1,117.5	2.5	0.48	253	3,992.5	3.4	0.86
Suicide	X60-X84, Y870	133	2,517.5	3.5	1.23	48	940.0	2.1	0.52	181	3,457.5	3.0	0.87
Other causes[1]		1,855	22,752.5	31.9	9.98	1,120	13,115.0	29.1	5.84	2,975	35,867.5	30.8	7.93
All causes		**6,054**	**71,285.0**	**100.0**	**29.09**	**3,936**	**45,135.0**	**100.0**	**19.10**	**9,990**	**116,420.0**	**100.0**	**24.17**

Note: PYLL – denotes the total number of years of life lost from an established life expectancy (75 years).
PYLLSR – per 1,000 standard population (Canada 1991 Census). [1]Other causes includes undetermined and pending. Causes of death are ordered by total PYLL in the age group. Total percentage may not add up to 100 due to rounding. Non-residents are excluded. The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

FIGURE 40

POTENTIAL YEARS OF LIFE LOST STANDARDIZED RATES BY AGE GROUP AND GENDER MAJOR CAUSES OF DEATH (AGE UNDER 75 YEARS)

BRITISH COLUMBIA, 2007



Note: Causes of death are ordered by total deaths (Table 35).
PYLLSR-PYLL Standardized Rate per 1,000 population.

Table 36

POTENTIAL YEARS OF LIFE LOST BY LOCAL HEALTH AREA
EXTERNAL CAUSES OF DEATH (AGE UNDER 75 YEARS), BRITISH COLUMBIA, 2002–2006 AND 2007

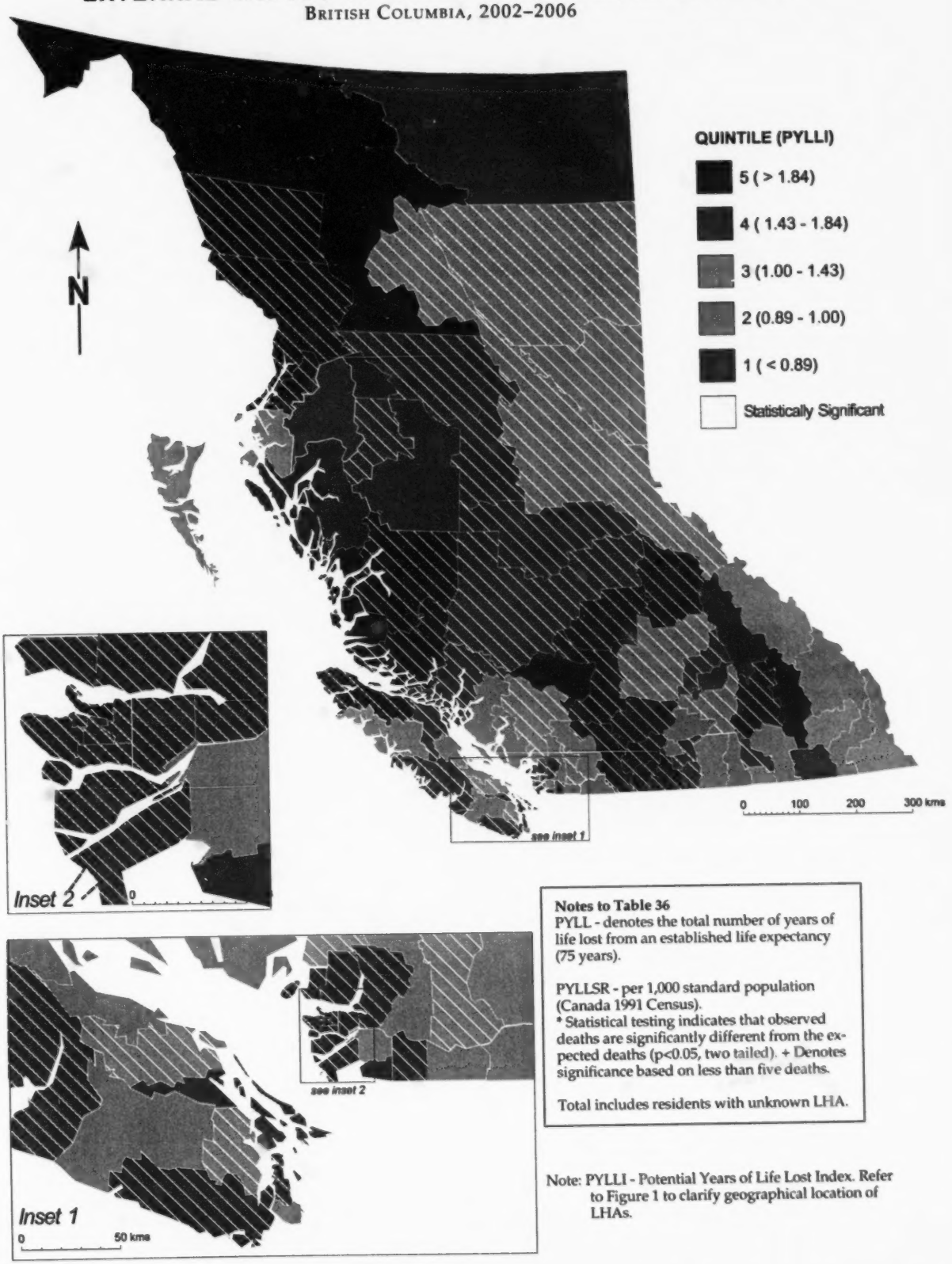
Local Health Area		2002–2006 Observed Deaths	2002–2006 Observed PYLL	2002–2006 PYLL Index (p)		2007 Observed Deaths	2007 Observed PYLL	2007 Expected PYLL	2007 PYLL Index (p)		2007 95% Confidence Limit Lower		2007 95% Confidence Limit Upper
001	Fernie	38	1,260.0	1.38		5	212.5	119.21	1.78		0.11	-	3.46
002	Cranbrook	54	1,737.0	1.22		11	327.5	189.55	1.73		0.55	-	2.91
003	Kimberley	15	547.5	1.25		4	115.0	59.82	1.92		0.00	-	3.88
004	Windermere	21	632.5	1.20		4	115.0	77.15	1.49		0.00	-	3.17
005	Creston	28	845.0	1.45		4	100.0	79.17	1.26		0.00	-	2.87
006	Kootenay Lake	16	400.0	2.07		3	92.5	27.06	3.42		0.00	-	7.36
007	Nelson	49	1,307.5	0.93		6	205.0	190.53	1.08		0.17	-	1.98
009	Castlegar	32	1,227.0	1.71	*	2	60.0	99.40	0.60		0.00	-	1.57
010	Arrow Lakes	17	597.5	2.41	*	1	27.5	32.32	0.85		0.00	-	2.52
011	Trail	44	1,509.0	1.42		9	137.5	142.82	0.96		0.20	-	1.72
012	Grand Forks	23	572.5	1.25		3	87.5	62.00	1.41		0.00	-	3.30
013	Kettle Valley	10	250.0	1.30		2	15.0	25.39	0.59		0.00	-	1.58
014	Southern Okanagan	43	1,402.5	1.68	*	5	142.5	120.88	1.18		0.14	-	2.22
015	Penticton	102	3,498.5	1.75	*	8	185.0	285.11	0.65		0.15	-	1.15
016	Keremeos	27	887.5	3.94	*	1	37.5	31.29	1.20		0.00	-	3.55
017	Princeton	15	572.5	2.38	*	1	17.5	33.27	0.53		0.00	-	1.56
018	Golden	18	635.0	1.43		1	42.5	61.66	0.69		0.00	-	2.04
019	Revelstoke	14	405.0	0.82		2	55.0	66.50	0.83		0.00	-	1.99
020	Salmon Arm	84	2,605.0	1.59	*	18	755.0	236.79	3.19	*	1.64	-	4.74
021	Armstrong - Spallumcheen	24	805.0	1.54		2	90.0	69.14	1.30		0.00	-	3.17
022	Vernon	140	4,369.5	1.35	*	19	537.5	466.84	1.15		0.55	-	1.75
023	Central Okanagan	294	9,416.5	1.07		39	1,057.5	1,309.85	0.81		0.51	-	1.11
024	Kamloops	265	8,349.0	1.40	*	31	907.5	830.02	1.09		0.66	-	1.53
025	100 Mile House	54	1,510.0	1.93	*	7	257.5	104.21	2.47		0.53	-	4.42
026	North Thompson	17	717.5	2.93	*	3	122.5	32.29	3.79		0.00	-	8.44
027	Cariboo - Chilcotin	73	2,377.5	1.49	*	26	880.0	209.40	4.20	*	2.37	-	6.03
028	Quesnel	68	2,075.0	1.51	*	3	62.5	180.13	0.35	+	0.00	-	0.84
029	Lillooet	19	482.5	1.89		2	35.0	33.31	1.05		0.00	-	2.57
030	South Cariboo	31	767.5	1.96	*	2	80.0	52.59	1.52		0.00	-	3.82
031	Merritt	38	1,255.0	1.98	*	7	162.5	84.56	1.92		0.35	-	3.49
032	Hope	30	845.0	1.93	*	5	217.5	56.71	3.84		0.46	-	7.21
033	Chilliwack	135	4,367.5	1.05		18	475.0	604.72	0.79		0.37	-	1.20
034	Abbotsford	212	7,479.0	1.02		27	947.5	1,026.82	0.92		0.54	-	1.31
035	Langley	159	4,897.5	0.72	*	25	862.5	967.31	0.89		0.51	-	1.27
037	Delta	117	3,893.5	0.67	*	12	280.0	780.20	0.36	*	0.13	-	0.59
038	Richmond	133	4,182.0	0.39	*	26	847.0	1,474.13	0.57	*	0.32	-	0.83
040	New Westminster	118	3,520.0	0.97		18	480.0	507.23	0.95		0.45	-	1.45
041	Burnaby	237	7,617.5	0.60	*	39	1,227.5	1,769.79	0.69	*	0.45	-	0.94
042	Maple Ridge	152	5,229.5	1.05		30	925.0	712.35	1.30		0.79	-	1.81
043	Coquitlam	257	8,519.5	0.68	*	35	1,102.5	1,711.03	0.64	*	0.40	-	0.89
044	North Vancouver	146	4,921.5	0.64	*	21	704.5	1,054.41	0.67	*	0.35	-	0.98
045	West Vancouver-Bowen Is.	51	1,517.0	0.61	*	7	172.5	350.09	0.49	*	0.05	-	0.94
046	Sunshine Coast	48	1,479.5	1.06		9	267.5	202.05	1.32		0.30	-	2.34
047	Powell River	41	1,187.5	1.13		6	120.0	140.30	0.86		0.01	-	1.70
048	Howe Sound	80	2,970.0	1.39	*	10	340.0	296.10	1.15		0.38	-	1.92
049	Bella Coola Valley	23	862.5	4.57	*	2	70.0	23.01	3.04		0.00	-	7.52
050	Queen Charlotte	15	397.5	1.30		1	32.5	40.60	0.80		0.00	-	2.37
051	Snow Country	6	300.0	7.77	*	-	-	4.35	-		-	-	-
052	Prince Rupert	38	1,290.0	1.39		4	105.0	114.24	0.92		0.00	-	1.94
053	Upper Skeena	10	285.0	0.84		4	145.0	43.20	3.36		0.01	-	6.70
054	Smithers	41	1,549.5	1.54	*	5	137.5	126.87	1.08		0.00	-	2.21
055	Burns Lake	24	790.0	1.73		5	147.5	62.91	2.34		0.00	-	4.95
056	Nechako	49	1,682.5	1.78	*	9	357.5	117.79	3.04		0.89	-	5.18
057	Prince George	235	7,719.5	1.28	*	31	972.0	795.27	1.22		0.74	-	1.71
059	Peace River South	63	2,217.5	1.42	*	4	155.0	219.33	0.71		0.00	-	1.47
060	Peace River North	77	2,896.0	1.40	*	15	497.5	292.71	1.70		0.74	-	2.66
061	Greater Victoria	347	11,211.0	0.91		61	1,672.5	1,722.53	0.97		0.70	-	1.25
062	Sooke	84	2,575.0	0.76	*	13	507.5	501.92	1.01		0.41	-	1.61
063	Saanich	71	2,152.5	0.70	*	11	317.5	430.69	0.74		0.25	-	1.22
064	Gulf Islands	29	1,007.5	1.49		4	85.0	95.83	0.89		0.00	-	1.81
065	Cowichan	110	3,781.0	1.31	*	19	752.5	409.77	1.84		0.95	-	2.73
066	Lake Cowichan	9	347.5	1.03		-	-	47.66	-		-	-	-
067	Ladysmith	35	1,252.5	1.44		2	90.0	126.91	0.71		0.00	-	1.69
068	Nanaimo	203	6,738.5	1.27	*	21	692.5	756.25	0.92		0.48	-	1.35
069	Qualicum	67	1,932.5	1.00		12	415.0	281.55	1.47		0.50	-	2.45
070	Alberni	94	3,178.5	1.80	*	20	695.0	239.46	2.90	*	1.54	-	4.26
071	Courtenay	121	3,769.5	1.19		13	407.5	456.26	0.89		0.33	-	1.45
072	Campbell River	113	3,657.5	1.59	*	14	265.0	319.55	0.83		0.35	-	1.31
075	Mission	100	3,230.0	1.39	*	12	410.0	335.80	1.22		0.46	-	1.98
076	Agassiz - Harrison	20	675.0	1.43		1	32.5	62.21	0.52		0.00	-	1.55
077	Summerland	17	577.5	1.04		-	-	77.81	-		-	-	-
078	Enderby	18	660.0	1.69		5	87.5	56.38	1.55		0.00	-	3.25
080	Kitimat	21	572.5	0.86		4	115.0	82.05	1.40		0.01	-	2.79
081	Fort Nelson	18	734.5	1.70		2	55.0	57.75	0.95		0.00	-	2.29
083	Central Coast	7	247.5	2.47		1	57.5	12.22	4.71		0.00	-	13.93
084	Vancouver Island West	5	167.5	1.15		1	32.5	18.92	1.72		0.00	-	5.08
085	Vancouver Island North	40	1,611.0	2.04	*	4	120.0	97.91	1.23		0.00	-	2.54
087	Stikine	4	135.0	2.16		-	-	7.22	-		-	-	-
088	Terrace	54	1,766.5	1.44		9	347.5	159.11	2.18		0.66	-	3.71
092	Nisga'a	14	485.0	3.83	*	3	142.5	15.96	8.93		0.00	-	19.18
094	Telegraph Creek	8	305.0	7.48	*	1	57.5	5.81	9.89		0.00	-	29.28
161	Vancouver - City Centre	194	5,880.0	0.79	*	37	1,067.5	1,067.79	1.00		0.64	-	1.36
162	Vancouver - Downtown E.side	267	7,972.0	2.22	*	66	1,820.0	511.75	3.56	*	2.63	-	4.49
163	Vancouver - North East	129	4,032.5	0.66	*	14	480.0	840.50	0.57	*	0.24	-	0.90
164	Vancouver - Westside	119	3,657.5	0.46	*	20	450.0	1,084.62	0.41	*	0.21	-	0.62
165	Vancouver - Midtown	119	3,792.0	0.71	*	22	685.0	714.46	0.96		0.52	-	1.40
166	Vancouver - South	134	4,407.0	0.56	*	14	465.0	1,056.76	0.44	*	0.19	-	0.69
201	Surrey	590	20,632.0	1.01		80	2,350.0	2,913.80	0.81		0.61	-	1.00
202	South Surrey/White Rock	99	3,372.0	0.87		12	465.0	563.03	0.83		0.33	-	1.32
	PROVINCIAL TOTAL	**7,469**	**243,456.0**	**1.00**		**1,105**	**33,936.0**	**33,936.00**	**1.00**		**0.93**	-	**1.07**

Notes for this table follow the map.

FIGURE 41

EXTERNAL CAUSES OF DEATH BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 2002–2006



Notes to Table 36

PYLL - denotes the total number of years of life lost from an established life expectancy (75 years).

PYLLSR - per 1,000 standard population (Canada 1991 Census).

* Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed). + Denotes significance based on less than five deaths.

Total includes residents with unknown LHA.

Note: PYLLI - Potential Years of Life Lost Index. Refer to Figure 1 to clarify geographical location of LHAs.

Table 36

POTENTIAL YEARS OF LIFE LOST BY LOCAL HEALTH AREA
EXTERNAL CAUSES OF DEATH (AGE UNDER 75 YEARS), BRITISH COLUMBIA, 2002–2006 AND 2007

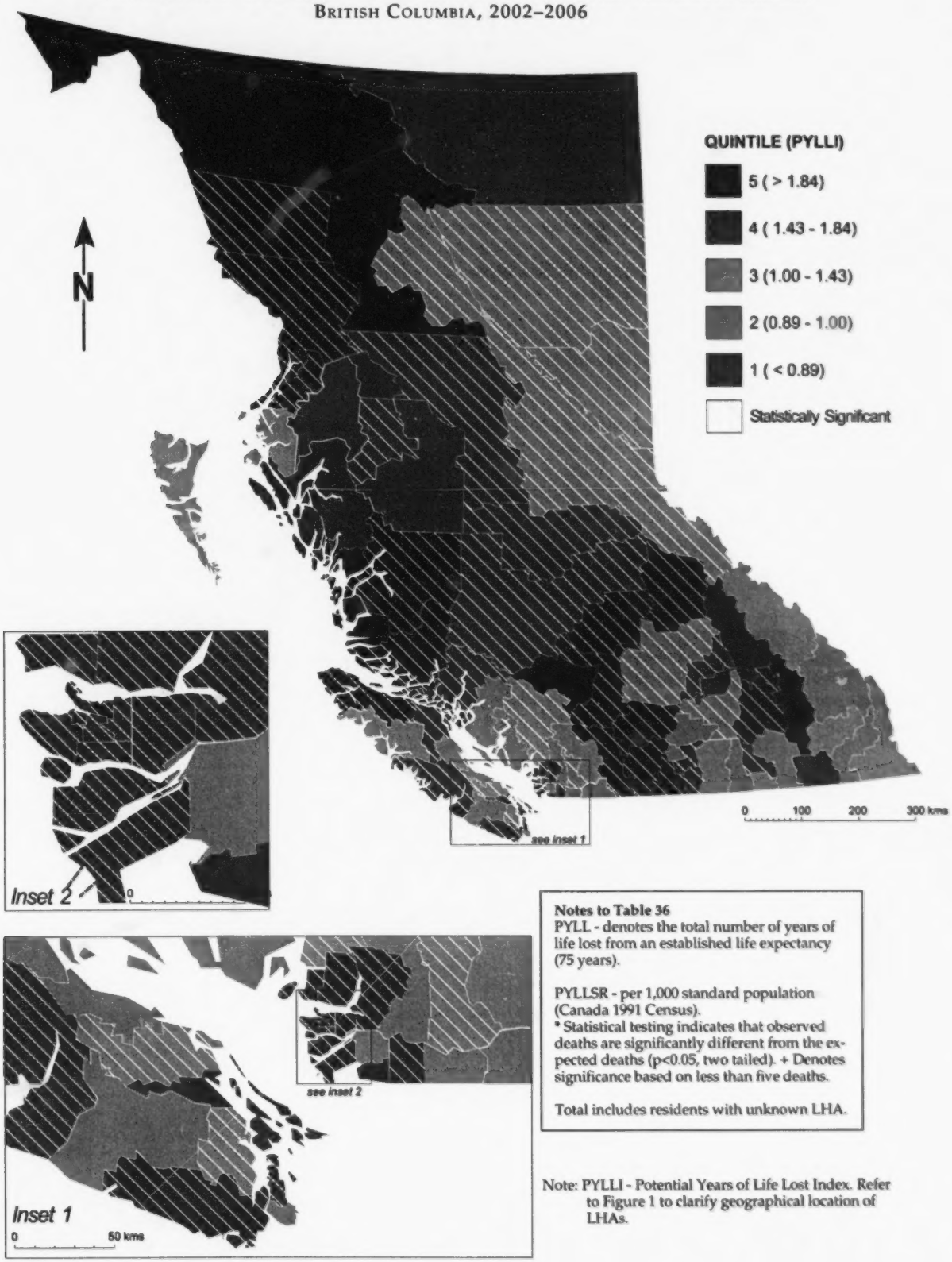
Local Health Area		2002–2006 Observed Deaths	2002–2006 Observed PYLL	2002–2006 PYLL Index (p)		2007 Observed Deaths	2007 Observed PYLL	2007 Expected PYLL	2007 PYLL Index (p)		95% Confidence Limit Lower		Upper
001	Fernie	38	1,260.0	1.38		5	212.5	119.21	1.78		0.11	-	3.46
002	Cranbrook	54	1,737.0	1.22		11	327.5	189.55	1.73		0.55	-	2.91
003	Kimberley	15	547.5	1.25		4	115.0	59.82	1.92		0.00	-	3.88
004	Windermere	21	632.5	1.20		4	115.0	77.15	1.49		0.00	-	3.17
005	Creston	28	845.0	1.45		4	100.0	79.17	1.26		0.00	-	2.87
006	Kootenay Lake	16	400.0	2.07		3	92.5	27.06	3.42		0.00	-	7.36
007	Nelson	49	1,307.5	0.93		6	205.0	190.53	1.08		0.17	-	1.98
009	Castlegar	32	1,227.0	1.71	*	2	60.0	99.40	0.60		0.00	-	1.57
010	Arrow Lakes	17	597.5	2.41	*	1	27.5	32.32	0.85		0.00	-	2.52
011	Trail	44	1,509.0	1.42		9	137.5	142.82	0.96		0.20	-	1.72
012	Grand Forks	23	572.5	1.25		3	87.5	62.00	1.41		0.00	-	3.30
013	Kettle Valley	10	250.0	1.30		2	15.0	25.39	0.59		0.00	-	1.58
014	Southern Okanagan	43	1,402.5	1.68	*	5	142.5	120.88	1.18		0.14	-	2.22
015	Penticton	102	3,498.5	1.75	*	8	185.0	285.11	0.65		0.15	-	1.15
016	Keremeos	27	887.5	3.94	*	1	37.5	31.29	1.20		0.00	-	3.55
017	Princeton	15	572.5	2.38	*	1	17.5	33.27	0.53		0.00	-	1.56
018	Golden	18	635.0	1.43		1	42.5	61.66	0.69		0.00	-	2.04
019	Revelstoke	14	405.0	0.82		2	55.0	66.50	0.83		0.00	-	1.99
020	Salmon Arm	84	2,605.0	1.59	*	18	755.0	236.79	3.19	*	1.84	-	4.74
021	Armstrong - Spallumcheen	24	805.0	1.54		2	90.0	69.14	1.30		0.00	-	3.17
022	Vernon	140	4,369.5	1.35	*	19	537.5	466.84	1.15		0.55	-	1.75
023	Central Okanagan	294	9,416.5	1.07		39	1,057.5	1,309.85	0.81		0.51	-	1.11
024	Kamloops	265	8,349.0	1.40	*	31	907.5	830.02	1.09		0.66	-	1.53
025	100 Mile House	54	1,510.0	1.93	*	7	257.5	104.21	2.47		0.53	-	4.42
026	North Thompson	17	717.5	2.93	*	3	122.5	32.29	3.79		0.00	-	8.44
027	Cariboo - Chilcotin	73	2,377.5	1.49	*	26	880.0	209.40	4.20	*	2.37	-	6.03
028	Quesnel	68	2,075.0	1.51	*	3	62.5	180.13	0.35	+	0.00	-	0.84
029	Lillooet	19	482.5	1.89		2	35.0	33.31	1.05		0.00	-	2.57
030	South Cariboo	31	767.5	1.96	*	2	80.0	52.59	1.52		0.00	-	3.82
031	Merritt	38	1,255.0	1.98	*	7	162.5	84.56	1.92		0.35	-	3.49
032	Hope	30	845.0	1.93	*	5	217.5	56.71	3.84		0.46	-	7.21
033	Chilliwack	135	4,367.5	1.05		18	475.0	604.72	0.79		0.37	-	1.20
034	Abbotsford	212	7,479.0	1.02		27	947.5	1,026.82	0.92		0.54	-	1.31
035	Langley	159	4,897.5	0.72	*	25	862.5	967.31	0.89		0.51	-	1.27
037	Delta	117	3,893.5	0.67	*	12	280.0	780.20	0.36	*	0.13	-	0.59
038	Richmond	133	4,182.0	0.39	*	26	847.0	1,474.13	0.57	*	0.32	-	0.83
040	New Westminster	118	3,520.0	0.97		18	480.0	507.23	0.95		0.45	-	1.45
041	Burnaby	237	7,617.5	0.60	*	39	1,227.5	1,769.79	0.69	*	0.45	-	0.94
042	Maple Ridge	152	5,229.5	1.05		30	925.0	712.35	1.30		0.79	-	1.81
043	Coquitlam	257	8,519.5	0.68	*	35	1,102.5	1,711.03	0.64	*	0.40	-	0.89
044	North Vancouver	146	4,921.5	0.64	*	21	704.5	1,054.41	0.67	*	0.35	-	0.98
045	West Vancouver-Bowen Is.	51	1,517.0	0.61	*	7	172.5	350.09	0.49	*	0.05	-	0.94
046	Sunshine Coast	48	1,479.5	1.06		9	267.5	202.05	1.32		0.30	-	2.34
047	Powell River	41	1,187.5	1.13		6	120.0	140.30	0.86		0.01	-	1.70
048	Howe Sound	80	2,970.0	1.39	*	10	340.0	296.10	1.15		0.38	-	1.92
049	Bella Coola Valley	23	862.5	4.57	*	2	70.0	23.01	3.04		0.00	-	7.52
050	Queen Charlotte	15	397.5	1.30		1	32.5	40.60	0.80		0.00	-	2.37
051	Snow Country	6	300.0	7.77	*	-	-	4.35	-		-	-	-
052	Prince Rupert	38	1,290.0	1.39		4	105.0	114.24	0.92		0.00	-	1.94
053	Upper Skeena	10	285.0	0.84		4	145.0	43.20	3.36		0.01	-	6.70
054	Smithers	41	1,549.5	1.54	*	5	137.5	126.87	1.08		0.00	-	2.21
055	Burns Lake	24	790.0	1.73		5	147.5	62.91	2.34		0.00	-	4.95
056	Nechako	49	1,682.5	1.78	*	9	357.5	117.79	3.04		0.89	-	5.18
057	Prince George	235	7,719.5	1.28	*	31	972.0	795.27	1.22		0.74	-	1.71
059	Peace River South	63	2,217.5	1.42	*	4	155.0	219.33	0.71		0.00	-	1.47
060	Peace River North	77	2,896.0	1.40	*	15	497.5	292.71	1.70		0.74	-	2.66
061	Greater Victoria	347	11,211.0	0.91		61	1,672.5	1,722.53	0.97		0.70	-	1.25
062	Sooke	84	2,575.0	0.76	*	13	507.5	501.92	1.01		0.41	-	1.61
063	Saanich	71	2,152.5	0.70	*	11	317.5	430.69	0.74		0.25	-	1.22
064	Gulf Islands	29	1,007.5	1.49		4	85.0	95.83	0.89		0.00	-	1.81
065	Cowichan	110	3,781.0	1.31	*	19	752.5	409.77	1.84		0.95	-	2.73
066	Lake Cowichan	9	347.5	1.03		-	-	47.66	-		-	-	-
067	Ladysmith	35	1,252.5	1.44		2	90.0	126.91	0.71		0.00	-	1.69
068	Nanaimo	203	6,738.5	1.27	*	21	692.5	756.25	0.92		0.48	-	1.35
069	Qualicum	67	1,932.5	1.00		12	415.0	281.55	1.47		0.50	-	2.45
070	Alberni	94	3,178.5	1.80	*	20	695.0	239.46	2.90	*	1.54	-	4.26
071	Courtenay	121	3,769.5	1.19		13	407.5	456.26	0.89		0.33	-	1.45
072	Campbell River	113	3,657.5	1.59	*	14	265.0	319.55	0.83		0.35	-	1.31
075	Mission	100	3,230.0	1.39	*	12	410.0	335.80	1.22		0.46	-	1.98
076	Agassiz - Harrison	20	675.0	1.43		1	32.5	62.21	0.52		0.00	-	1.55
077	Summerland	17	577.5	1.04		-	-	77.81	-		-	-	-
078	Enderby	18	660.0	1.69		5	87.5	56.38	1.55		0.00	-	3.25
080	Kitimat	21	572.5	0.86		4	115.0	82.05	1.40		0.01	-	2.79
081	Fort Nelson	18	734.5	1.70		2	55.0	57.75	0.95		0.00	-	2.29
083	Central Coast	7	247.5	2.47		1	57.5	12.22	4.71		0.00	-	13.93
084	Vancouver Island West	5	167.5	1.15		1	32.5	18.92	1.72		0.00	-	5.08
085	Vancouver Island North	40	1,611.0	2.04	*	4	120.0	97.91	1.23		0.00	-	2.54
087	Stikine	4	135.0	2.16		-	-	7.22	-		-	-	-
088	Terrace	54	1,766.5	1.44		9	347.5	159.11	2.18		0.66	-	3.71
092	Nisga'a	14	485.0	3.83	*	3	142.5	15.96	8.93		0.00	-	19.18
094	Telegraph Creek	8	305.0	7.48	*	1	57.5	5.81	9.89		0.00	-	29.28
161	Vancouver - City Centre	194	5,880.0	0.79	*	37	1,067.5	1,067.79	1.00		0.64	-	1.36
162	Vancouver - Downtown E.side	267	7,972.0	2.22	*	66	1,820.0	511.75	3.56	*	2.63	-	4.49
163	Vancouver - North East	129	4,032.5	0.66	*	14	480.0	840.50	0.57	*	0.24	-	0.90
164	Vancouver - Westside	119	3,657.5	0.46	*	20	450.0	1,084.62	0.41	*	0.21	-	0.62
165	Vancouver - Midtown	119	3,792.0	0.71	*	22	685.0	714.46	0.96		0.52	-	1.40
166	Vancouver - South	134	4,407.0	0.56	*	14	465.0	1,056.76	0.44	*	0.19	-	0.69
201	Surrey	590	20,632.0	1.01		80	2,350.0	2,913.80	0.81		0.61	-	1.00
202	South Surrey/White Rock	99	3,372.0	0.87		12	465.0	563.03	0.83		0.33	-	1.32
	PROVINCIAL TOTAL	**7,469**	**243,456.0**	**1.00**		**1,105**	**33,936.0**	**33,936.00**	**1.00**		**0.93**	-	**1.07**

Notes for this table follow the map.

FIGURE 41

EXTERNAL CAUSES OF DEATH BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 2002–2006



Notes to Table 36
PYLL - denotes the total number of years of life lost from an established life expectancy (75 years).

PYLLSR - per 1,000 standard population (Canada 1991 Census).
* Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed). + Denotes significance based on less than five deaths.

Total includes residents with unknown LHA.

Note: PYLLI - Potential Years of Life Lost Index. Refer to Figure 1 to clarify geographical location of LHAs.

Medically Treatable Diseases

A list of causes has been identified where death could potentially have been avoided through appropriate and timely medical intervention and treatment. It should be noted that the causes are considered to have been amenable to medical treatment only if the death occurred to persons within specific age ranges. Please see the footnote on Table 37 for a list of the causes and ages included in this category.

There were only 145 deaths due to these causes in 2007, which represents 0.47 percent of all deaths in the province.

Table 37 indicates the number and percent of all medically treatable disease (MTD) deaths by cause for 2007 and the five-year period 2002-2006. Bacterial infections accounted for most of the deaths due to MTDs in 2007 and the previous five years. In 2007, two cause categories, *Hypertension and Hypertensive Diseases*, and *Pneumonia and Unqualified Bronchitis*, accounted for almost 2 in 5 male deaths due to MTDs (37.9 percent) and for females, about 1 in 5 (21.5 percent).

Table 38 shows the count of deaths due to MTDs organized by the LHA in which the decedent lived. For the current year, 2007, the table shows the actual number of deaths observed in the LHA and the expected deaths (calculated using the 2007 age specific death rates for MTD).

There were 8 LHAs that had no deaths due to these conditions in 2002-2006 and 42 in 2007 as shown in Table 38. Further, there were only eight LHAs in 2002-2006 that showed differences between observed and expected deaths that were statistically significant based on five or more deaths and only three LHAs with five or more deaths had a statistically significant and high ratio in 2007.

Figure 42 shows the province divided up into its 89 LHAs, with each area indicated as to whether its SMR for deaths due to MTDs was high or low on a five category scale: deep red indicates the highest SMRs and dark grey indicates the lowest. As might be expected from a table containing such low counts, this map shows no obvious geographic pattern of location of the quintiles.

TABLE 37

DEATHS DUE TO MEDICALLY TREATABLE DISEASES BY SELECTED CAUSES AND GENDER

BRITISH COLUMBIA, 2002–2006 AND 2007

Cause of Death	ICD-10 Code(s)	2002–2006		2007					
				Male		Female		Total	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
Bacterial Infections	A00-A05, ..., M871*	266	32.6	26	39.4	15	19.0	41	28.3
Hypertension and hypertensive diseases	I10-I15	170	20.8	10	15.2	1	1.3	11	7.6
Pneumonia and unqualified bronchitis	J12-J181, J188, J189, J40	143	17.5	15	22.7	16	20.3	31	21.4
Malignant neoplasm of cervix	C53	140	17.1	-	-	36	45.6	36	24.8
Abdominal hernias, cholecystitis and cholelithiasis, appendicitis	K35-K37, K40-K46, K80, K81	30	3.7	5	7.6	3	3.8	8	5.5
Asthma	J45-J46	29	3.5	3	4.5	4	-	7	4.8
Tuberculosis	A15-A19, B90	14	1.7	4	6.1	1	-	5	3.4
Hodgkin's disease	C81	12	1.5	1	1.5	-	-	1	0.7
Chronic rheumatic heart disease	I05-I09	8	1.0	1	-	2	2.5	3	2.1
Acute respiratory infections and influenza	J00-J06, J10-J11, J20-22	4	0.5	1	-	1	-	2	-
Nutritional anemias	D50-D53	1	0.1	-	-	-	-	-	-
TOTAL		**817**	**100.0**	**66**	**100.0**	**79**	**100.0**	**145**	**100.0**

Note: Medically Treatable Diseases (MTDs) based on Charlton's definition (see Glossary).
*ICD–10 codes A00–A05, A20–A49, B95–B96, G00, H66, H70, H95.0–H95.1, I00–I01, I02.0, I02.9, L01–L08, M00, M02.8–M02.9, M46.2, M86, M87.1.
Deaths due to MTDs exclude all deaths less than age 5 years old.
Deaths due to MTDs also exclude
- deaths aged 65 or more from hypertensive disease.
- deaths aged 50 or more from pneumonia and unqualified bronchitis.
- deaths aged 65 or more from cervical cancer.
- deaths aged 65 or more from tuberculosis.
- deaths aged 50 or more from asthma.
- deaths aged 45 or more from chronic rheumatic heart disease.
- deaths aged 50 or more from acute respiratory infections and influenza.
- deaths aged 65 or more from bacterial infections.
- deaths aged 35 or more from Hodgkin's disease.
- deaths aged 65 or more from abdominal hernias, cholecystitis and cholelithiasis, appendicitis.
- deaths aged 65 or more from deficiency nutritional anemias.

Total percentage may not add up to 100 due to rounding.
The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

Table 38

STANDARDIZED MORTALITY RATIO BY LOCAL HEALTH AREA DEATHS DUE TO MEDICALLY TREATABLE DISEASES, BRITISH COLUMBIA, 2002–2006 AND 2007

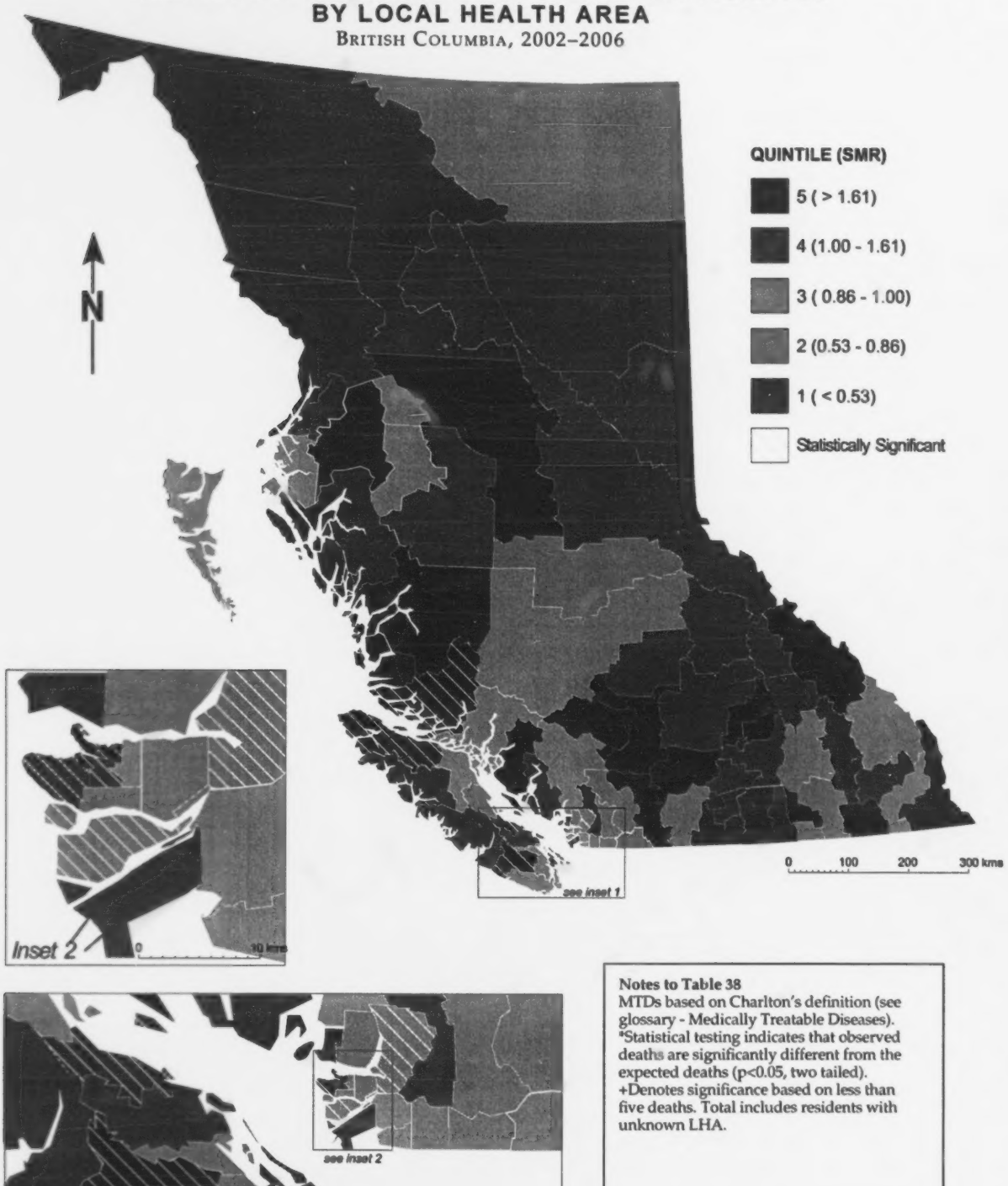
Local Health Area		2002–2006 Observed Deaths	2002–2006 SMR (p)	2007 Observed Deaths	2007 Expected Deaths	2007 SMR (p)	95% Confidence Interval Lower	95% Confidence Interval Upper
001	Fernie	1	0.32	1	0.53	1.89	0.02 -	10.50
002	Cranbrook	5	0.96	1	0.87	1.14	0.01 -	6.37
003	Kimberley	2	1.11	-	0.30	-	- -	-
004	Windermere	2	1.04	-	0.35	-	- -	-
005	Creston	4	1.63	-	0.42	-	- -	-
006	Kootenay Lake	-	-	-	0.15	-	- -	-
007	Nelson	4	0.79	-	0.88	-	- -	-
009	Castlegar	5	1.88	1	0.46	2.17	0.03 -	12.09
010	Arrow Lakes	1	0.91	-	0.18	-	- -	-
011	Trail	4	0.99	3	0.70	4.31	0.87 -	12.60
012	Grand Forks	1	0.53	-	0.32	-	- -	-
013	Kettle Valley	-	-	-	0.14	-	- -	-
014	Southern Okanagan	6	1.59	1	0.65	1.54	0.02 -	8.55
015	Penticton	10	1.32	1	1.37	0.73	0.01 -	4.07
016	Keremeos	-	-	-	0.17	-	- -	-
017	Princeton	1	0.86	-	0.20	-	- -	-
018	Golden	3	2.11	-	0.25	-	- -	-
019	Revelstoke	2	1.21	-	0.28	-	- -	-
020	Salmon Arm	11	1.63	-	1.20	-	- -	-
021	Armstrong - Spallumcheen	1	0.50	-	0.33	-	- -	-
022	Vernon	16	1.33	-	2.14	-	- -	-
023	Central Okanagan	36	1.16	3	5.75	0.52	0.10 -	1.52
024	Kamloops	26	1.23	6	3.73	1.61	0.59 -	3.51
025	100 Mile House	5	1.49	-	0.55	-	- -	-
026	North Thompson	1	1.08	1	0.16	6.11	0.08 -	33.98
027	Cariboo - Chilcotin	5	0.93	-	0.92	-	- -	-
028	Quesnel	3	0.62	-	0.82	-	- -	-
029	Lillooet	3	3.38	-	0.15	-	- -	-
030	South Cariboo	4	2.55	1	0.26	3.82	0.05 -	21.27
031	Merritt	4	1.76	1	0.39	2.53	0.03 -	14.09
032	Hope	5	2.98	-	0.28	-	- -	-
033	Chilliwack	11	0.80	4	2.52	1.59	0.43 -	4.06
034	Abbotsford	18	0.82	1	3.96	0.25	0.00 -	1.41
035	Langley	19	0.84	5	4.07	1.23	0.40 -	2.87
037	Delta	22	1.07	2	3.48	0.57	0.06 -	2.07
038	Richmond	23	0.64 *	-	6.39	-	- -	-
040	New Westminster	12	1.01	3	2.12	1.42	0.28 -	4.14
041	Burnaby	30	0.76	3	6.99	0.43	0.09 -	1.25
042	Maple Ridge	17	1.05	4	2.96	1.35	0.36 -	3.46
043	Coquitlam	24	0.80 *	5	7.07	0.71	0.23 -	1.65
044	North Vancouver	22	0.80	1	4.87	0.21	0.00 -	1.19
045	West Vancouver-Bowen Is.	5	0.46	1	1.79	0.56	0.01 -	3.10
046	Sunshine Coast	7	1.17	-	1.10	-	- -	-
047	Powell River	7	1.83	2	0.73	2.73	0.31 -	9.85
048	Howe Sound	6	1.03	2	1.07	1.87	0.21 -	6.74
049	Bella Coola Valley	1	1.85	-	0.10	-	- -	-
050	Queen Charlotte	1	0.96	1	0.18	5.54	0.07 -	30.84
051	Snow Country	-	-	-	0.02	-	- -	-
052	Prince Rupert	3	1.02	-	0.50	-	- -	-
053	Upper Skeena	1	0.98	-	0.17	-	- -	-
054	Smithers	3	0.94	-	0.54	-	- -	-
055	Burns Lake	2	1.33	-	0.26	-	- -	-
056	Nechako	6	2.03	-	0.50	-	- -	-
057	Prince George	27	1.42	4	3.29	1.22	0.33 -	3.12
059	Peace River South	6	1.22	1	0.90	1.11	0.01 -	6.20
060	Peace River North	7	1.26	2	1.02	1.96	0.22 -	7.08
061	Greater Victoria	35	0.86	6	7.28	0.82	0.30 -	1.79
062	Sooke	10	0.85	1	2.18	0.46	0.01 -	2.55
063	Saanich	11	0.83	1	2.23	0.45	0.01 -	2.50
064	Gulf Islands	1	0.29	-	0.59	-	- -	-
065	Cowichan	7	0.65	2	1.89	1.06	0.12 -	3.81
066	Lake Cowichan	5	3.86 *	-	0.23	-	- -	-
067	Ladysmith	3	0.84	-	0.65	-	- -	-
068	Nanaimo	21	1.10	3	3.43	0.87	0.18 -	2.55
069	Qualicum	3	0.33 +	-	1.57	-	- -	-
070	Alberni	8	1.23	1	1.10	0.91	0.01 -	5.07
071	Courtenay	8	0.64	-	2.22	-	- -	-
072	Campbell River	9	1.05	1	1.51	0.66	0.01 -	3.68
075	Mission	4	0.54	2	1.34	1.49	0.17 -	5.39
076	Agassiz - Harrison	1	0.61	1	0.27	3.70	0.05 -	20.57
077	Summerland	1	0.44	-	0.40	-	- -	-
078	Enderby	4	2.66	-	0.27	-	- -	-
080	Kitimat	1	0.45	-	0.37	-	- -	-
081	Fort Nelson	1	0.92	1	0.20	5.02	0.07 -	27.96
083	Central Coast	2	6.97	1	0.05	21.36	0.28 -	118.85
084	Vancouver Island West	-	-	-	0.09	-	- -	-
085	Vancouver Island North	8	2.95 *	-	0.45	-	- -	-
087	Stikine	-	-	-	0.04	-	- -	-
088	Terrace	7	1.78	-	0.69	-	- -	-
092	Nisga'a	-	-	-	0.06	-	- -	-
094	Telegraph Creek	-	-	1	0.02	50.24	0.66 -	279.55
161	Vancouver - City Centre	35	1.76 *	9	3.71	2.43 *	1.11 -	4.61
162	Vancouver - Downtown E.side	46	4.20 *	13	1.96	6.64 *	3.53 -	11.35
163	Vancouver - North East	19	1.04	4	3.25	1.23	0.33 -	3.15
164	Vancouver - Westside	11	0.45 *	4	4.36	0.92	0.25 -	2.35
165	Vancouver - Midtown	7	0.44 *	5	2.76	1.81	0.58 -	4.23
166	Vancouver - South	18	0.73	4	4.28	0.93	0.25 -	2.39
201	Surrey	62	1.01	20	11.41	1.75 *	1.07 -	2.71
202	South Surrey/White Rock	14	0.88	3	2.83	1.06	0.21 -	3.09
	PROVINCIAL TOTAL	**817**	**1.00**	**145**	**146.00**	**1.00**	**0.84 -**	**1.18**

Notes for this table follow the map.

FIGURE 42

DEATHS DUE TO MEDICALLY TREATABLE DISEASES BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 2002–2006



Notes to Table 38
MTDs based on Charlton's definition (see glossary - Medically Treatable Diseases).
*Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed).
+Denotes significance based on less than five deaths. Total includes residents with unknown LHA.

Note: Refer to Figure 1 to clarify geographical location of LHAs.

Alcohol-Related Deaths

Alcohol-related deaths provide information on deaths due to alcohol (directly related) as well as those where alcohol was a contributing factor (indirectly related). Alcohol-related and drug overdose deaths are the only cause of death categories that are not based entirely upon the underlying causes of death. See the *Glossary* for a further explanation of alcohol-related deaths and Table 39 for the list of causes used for deaths directly due to alcohol.

Table 39 shows the number and percent of deaths that were directly and indirectly related to alcohol in 2007 and in the 5 preceding years, while figure 43 graphically shows the pattern of alcohol-related deaths by cause. About one-fifth (22.4 percent) of the 1,993 deaths related to alcohol in 2007 were directly attributable to alcohol (447 deaths). Alcohol was a contributing factor in the remaining 77.6 percent of these deaths. The table indicates that most of the deaths directly attributable to alcohol were caused by liver disease (14.9 percent).

Table 40 shows numbers and percentages of alcohol-related deaths by age group for males, females, and the total population. All alcohol-related deaths, whether directly or indirectly related to alcohol are included in this table.

Alcohol-related deaths constitute 6.4 percent of all deaths in 2007 and 9.2 percent of all male deaths. Males died of such causes nearly three times more frequently as women in 2007.

Nearly half (44.6 percent) of all alcohol deaths were of seniors (65 or older); 40.9 percent were people between the ages of 45 and 64.

The numbers of deaths directly and indirectly related to alcohol are shown for the LHAs in Table 41.

There were 22 LHAs with at least 5 deaths where the observed values were statistically significant and above the expected values in both 2002-2006 and 2007 as shown in Table 41. There were nine LHAs with SMRs that were statistically significant and low in both time periods. The map in Figure 44 shows the SMR quintiles and statistical significance patterns in each LHA during 2002-2006.

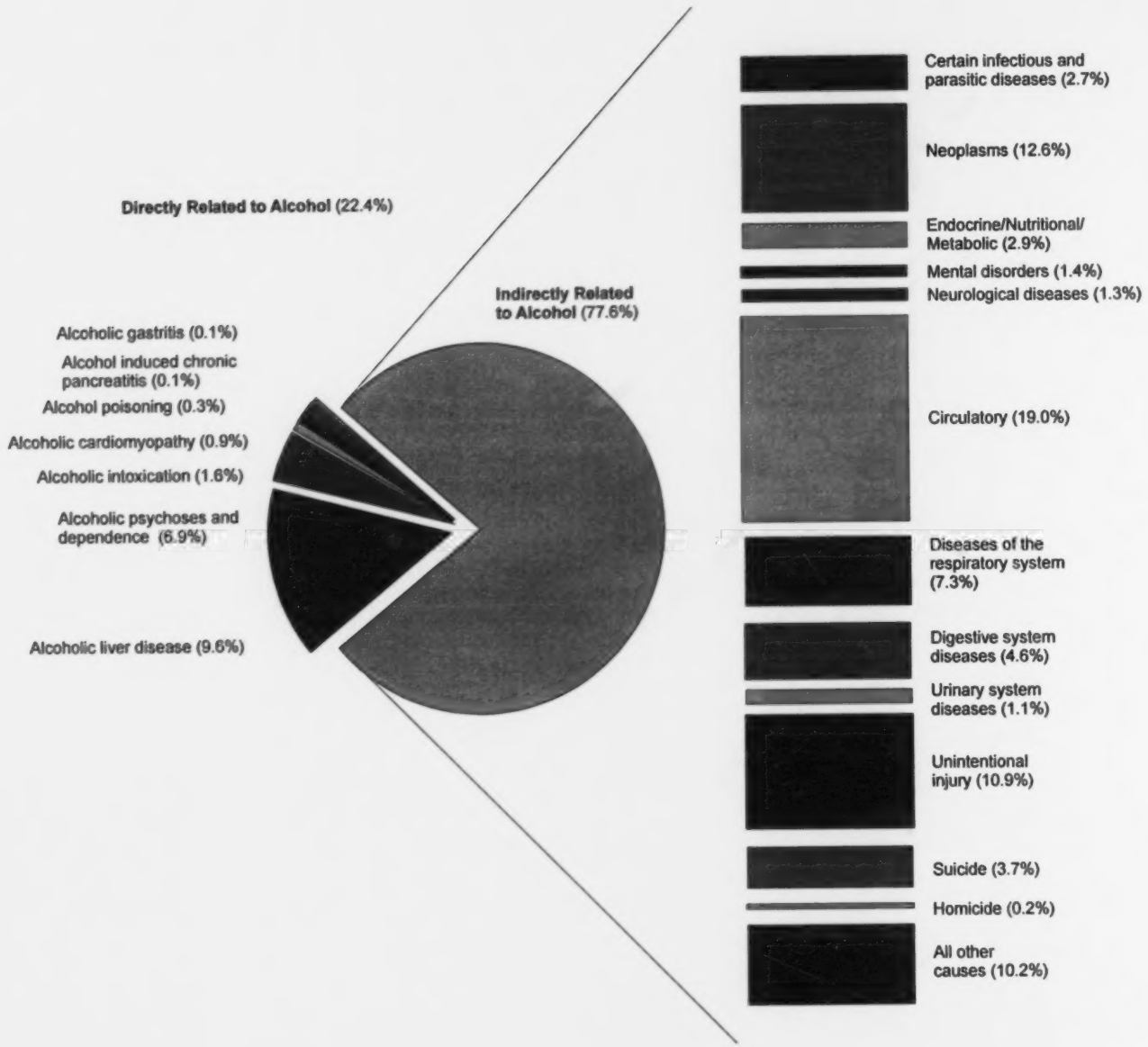
Reports of alcohol-relatedness for deaths in 2007 are lower than in previous years. Many alcohol-related deaths are referred to the BC Coroner service for investigation. As with external causes of death, the medical coding will be incomplete until the Coroner closes the investigation. For this reason the counts are often lower in the current year and are adjusted upwards in the years that follow.

TABLE 39
ALCOHOL-RELATED DEATHS BY CAUSE
BRITISH COLUMBIA, 2002–2006 AND 2007

Cause of Death	ICD-10 Code(s)	Year of Death			
		2002–2006		2007	
		Number	Percent	Number	Percent
Directly Related to Alcohol					
Alcohol intoxication	F100	210	2.1	15	0.8
Alcoholic psychoses and dependence	F101-F109	518	5.3	91	4.6
Alcoholic neurological disorders	G312, G621, G721	-	-	-	-
Alcoholic cardiomyopathy	I426	81	0.8	16	0.8
Alcoholic gastritis	K292	6	0.1	3	0.2
Alcoholic liver disease	K70	888	9.0	297	14.9
Alcohol induced chronic pancreatitis	K860	13	0.1	1	0.1
Alcohol poisoning	X45, X65	67	0.7	24	1.2
Other alcohol causes	E244, O354, O993, P043, Q860, R780 T510-T512, T519	-	-	-	-
SUBTOTAL		**1,783**	**18.2**	**447**	**22.4**
Indirectly Related to Alcohol[1]					
Certain infectious and parasitic diseases	A00-B99	309	3.1	53	2.7
Neoplasms	C00-D48	1,190	12.1	251	12.6
Endocrine/Nutritional/Metabolic	E00-E243, E248-E89	277	2.8	57	2.9
Mental disorders	F00-F09, F11-F99	122	1.2	27	1.4
Neurological diseases	G00-G311, G318-G620, G622-G720, G722-G99	122	1.2	26	1.3
Circulatory	I00-I425, I427-I99	2,183	22.2	378	19.0
Diseases of the respiratory system	J00-J98, U049	667	6.8	146	7.3
Digestive system diseases	K00-K291, K293-K69, K71-K85, K861-K92	653	6.6	91	4.6
Urinary system diseases	N00-N39, N990, N991, N995	103	1.0	21	1.1
Unintentional injury	V01-X44, X46-X59, Y40-Y86, Y88	1,460	14.9	217	10.9
Suicide	X60-X64, X66-X84, Y87	578	5.9	73	3.7
Homicide	X85-Y09, Y871	59	0.6	3	0.2
All other causes		317	3.2	203	10.2
SUBTOTAL		**8,040**	**81.8**	**1,546**	**77.6**
TOTAL		**9,823**	**100.0**	**1,993**	**100.0**

Note: [1]ICD-10 codes for indirectly related to alcohol exclude the codes for directly related to alcohol and will not match the list of codes used for these categories in other tables.
Total percentage may not add up to 100 due to rounding. Non-residents are excluded.
Coding practices from 1995 to 1999 may have produced over-counting of alcohol-related mortality. With the introduction of ICD-10 in 2000, more specific codes are available. Currently produced data should not be used in combination with data produced prior to 2000. The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.

FIGURE 43
ALCOHOL-RELATED DEATHS BY CAUSE
BRITISH COLUMBIA, 2007



See Table 39 for ICD-10 codes for each category.

TABLE 40
ALCOHOL-RELATED DEATHS BY AGE AND GENDER
BRITISH COLUMBIA, 2007

Age	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
<15	2	0.1	2	0.4	4	0.2
15-19	20	1.4	9	1.7	29	1.5
20-24	28	1.9	8	1.5	36	1.8
25-44	169	11.5	51	9.8	220	11.0
45-64	599	40.7	216	41.3	815	40.9
65-84	559	38.0	196	37.5	755	37.9
85+	93	6.3	41	7.8	134	6.7
TOTAL	**1,470**	**100.0**	**523**	**100.0**	**1,993**	**100.0**

Note: Alcohol-related deaths – see Table 39 for ICD-10 codes and Glossary for more details.
Total percentage may not add up to 100 due to rounding. Non-residents are excluded.
Coding practices from 1995 to 1999 may have produced over-counting of alcohol-related mortality.
With the introduction of ICD-10 in 2000, more specific codes are available.
Currently produced data should not be used in combination with data produced prior to 2000.

Table 41

STANDARDIZED MORTALITY RATIO BY LOCAL HEALTH AREA ALCOHOL-RELATED DEATHS, BRITISH COLUMBIA, 2002–2006 AND 2007

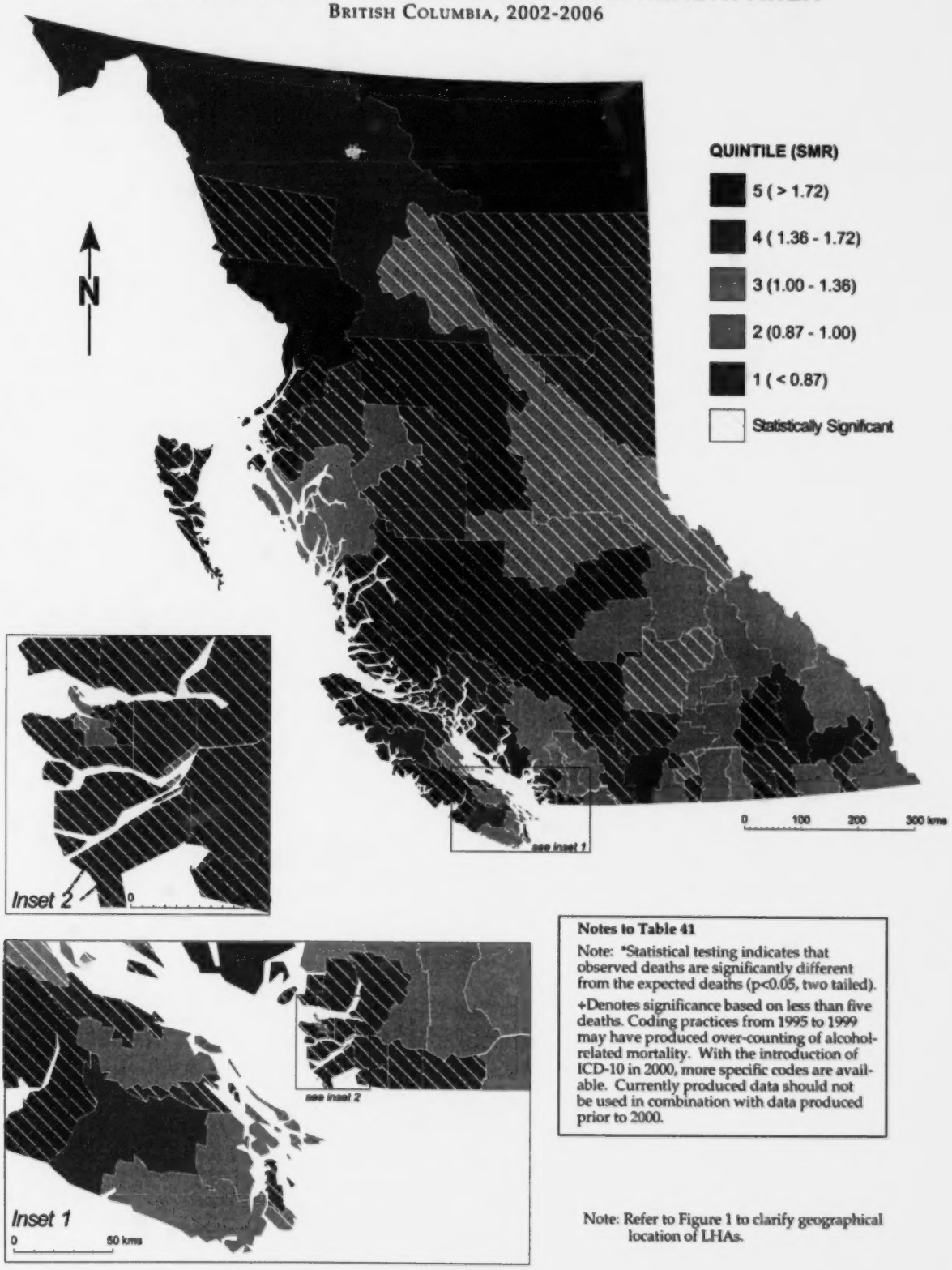
Local Health Area		2002–2006 Observed Deaths	SMR	(p)	2007 Observed Deaths	Expected Deaths	SMR	(p)	95% Confidence Interval Lower	Upper
001	Fernie	35	1.04		9	6.54	1.38		0.63 -	2.61
002	Cranbrook	92	1.50	*	21	12.37	1.70	*	1.05 -	2.60
003	Kimberley	34	1.39		6	4.77	1.26		0.46 -	2.74
004	Windermere	28	1.20		5	4.90	1.02		0.33 -	2.38
005	Creston	43	1.09		8	7.99	1.00		0.43 -	1.97
006	Kootenay Lake	16	1.48		2	2.21	0.90		0.10 -	3.26
007	Nelson	86	1.43	*	22	11.82	1.86	*	1.17 -	2.82
009	Castlegar	55	1.65	*	6	6.75	0.89		0.32 -	1.93
010	Arrow Lakes	29	1.98	*	8	2.95	2.71	*	1.17 -	5.33
011	Trail	104	1.93	*	28	10.59	2.65	*	1.76 -	3.82
012	Grand Forks	33	1.16		11	5.74	1.92		0.95 -	3.43
013	Kettle Valley	12	1.06		2	2.33	0.86		0.10 -	3.10
014	Southern Okanagan	102	1.47	*	17	13.88	1.23		0.71 -	1.96
015	Penticton	152	1.21	*	26	25.23	1.03		0.67 -	1.51
016	Keremeos	21	1.18		6	3.64	1.65		0.60 -	3.58
017	Princeton	11	0.65		6	3.51	1.71		0.62 -	3.72
018	Golden	19	1.27		3	3.03	0.99		0.20 -	2.89
019	Revelstoke	18	0.96		4	3.66	1.09		0.29 -	2.80
020	Salmon Arm	112	1.16		27	20.10	1.34		0.88 -	1.95
021	Armstrong - Spallumcheen	27	1.07		3	5.10	0.59		0.12 -	1.72
022	Vernon	181	1.10		40	33.85	1.18		0.84 -	1.61
023	Central Okanagan	432	1.01		80	89.18	0.90		0.71 -	1.12
024	Kamloops	319	1.26	*	63	52.02	1.21		0.93 -	1.55
025	100 Mile House	53	1.24		11	8.68	1.27		0.63 -	2.27
026	North Thompson	12	1.15		6	2.27	2.64		0.96 -	5.75
027	Cariboo - Chilcotin	111	1.93	*	30	11.75	2.55	*	1.72 -	3.64
028	Quesnel	74	1.34	*	16	11.14	1.44		0.82 -	2.33
029	Lillooet	33	3.20	*	6	2.11	2.84	*	1.04 -	6.19
030	South Cariboo	57	2.71	*	10	4.27	2.34	*	1.12 -	4.31
031	Merritt	43	1.60	*	16	5.61	2.85	*	1.63 -	4.63
032	Hope	36	1.53	*	11	4.78	2.30	*	1.15 -	4.12
033	Chilliwack	162	0.88		33	37.79	0.87		0.60 -	1.23
034	Abbotsford	200	0.73	*	42	54.67	0.77		0.55 -	1.04
035	Langley	192	0.73	*	45	53.20	0.85		0.62 -	1.13
037	Delta	156	0.68	*	33	45.68	0.72		0.50 -	1.01
038	Richmond	171	0.43	*	29	82.59	0.35	*	0.24 -	0.50
040	New Westminster	182	1.34	*	40	27.09	1.48	*	1.05 -	2.01
041	Burnaby	354	0.76	*	72	93.35	0.77	*	0.60 -	0.97
042	Maple Ridge	176	1.01		32	35.85	0.89		0.61 -	1.26
043	Coquitlam	270	0.67	*	49	81.45	0.60	*	0.45 -	0.80
044	North Vancouver	190	0.62	*	31	60.04	0.52	*	0.35 -	0.73
045	West Vancouver-Bowen Is.	91	0.60	*	15	29.80	0.50	*	0.28 -	0.83
046	Sunshine Coast	71	0.86		13	17.44	0.75		0.40 -	1.27
047	Powell River	94	1.65	*	13	11.66	1.11		0.59 -	1.91
048	Howe Sound	64	1.17		19	11.06	1.72	*	1.03 -	2.68
049	Bella Coola Valley	30	4.60	*	4	1.27	3.15		0.85 -	8.05
050	Queen Charlotte	28	2.71	*	6	2.13	2.82	*	1.03 -	6.13
051	Snow Country	4	2.82		1	0.27	3.66		0.05 -	20.35
052	Prince Rupert	64	2.08	*	16	6.12	2.62	*	1.49 -	4.25
053	Upper Skeena	22	2.09	*	6	2.10	2.86	*	1.04 -	6.22
054	Smithers	29	0.90		14	6.45	2.17	*	1.19 -	3.64
055	Burns Lake	29	1.66	*	5	3.46	1.44		0.47 -	3.37
056	Nechako	65	2.02	*	15	6.33	2.37	*	1.33 -	3.91
057	Prince George	248	1.29	*	64	38.60	1.66	*	1.28 -	2.12
059	Peace River South	86	1.60	*	14	11.11	1.26		0.69 -	2.12
060	Peace River North	78	1.43	*	15	10.89	1.38		0.77 -	2.27
061	Greater Victoria	613	1.12	*	148	107.72	1.37	*	1.16-	1.61
062	Sooke	139	1.12		24	26.02	0.92		0.59 -	1.37
063	Saanich	132	0.66	*	34	40.06	0.85		0.59 -	1.19
064	Gulf Islands	47	0.93		9	10.37	0.87		0.40 -	1.65
065	Cowichan	158	1.13		38	28.62	1.33		0.94 -	1.82
066	Lake Cowichan	25	1.54		1	3.33	0.30		0.00 -	1.67
067	Ladysmith	70	1.37	*	11	10.68	1.03		0.51 -	1.84
068	Nanaimo	275	1.10		51	51.82	0.98		0.73 -	1.29
069	Qualicum	108	0.72	*	28	31.41	0.89		0.59 -	1.29
070	Alberni	154	1.93	*	29	16.14	1.80	*	1.20 -	2.58
071	Courtenay	211	1.32	*	44	33.72	1.31		0.95 -	1.75
072	Campbell River	148	1.54	*	25	20.03	1.25		0.81 -	1.84
075	Mission	80	0.98		19	16.65	1.14		0.69 -	1.78
076	Agassiz - Harrison	29	1.31		5	4.56	1.10		0.35 -	2.56
077	Summerland	22	0.58	*	1	7.52	0.13	+	0.00 -	0.74
078	Enderby	23	1.12		7	4.26	1.64		0.66 -	3.39
080	Kitimat	27	1.16		5	4.61	1.09		0.35 -	2.53
081	Fort Nelson	16	1.74		4	1.79	2.24		0.60 -	5.72
083	Central Coast	24	8.07	*	5	0.58	8.57	*	2.76 -	20.01
084	Vancouver Island West	7	1.39		1	1.07	0.94		0.01 -	5.21
085	Vancouver Island North	65	2.47	*	14	5.25	2.67	*	1.46 -	4.47
087	Stikine	4	1.61		2	0.48	4.17		0.47 -	15.06
088	Terrace	71	1.71	*	17	8.44	2.01	*	1.17 -	3.22
092	Nisga'a	17	4.85	*	5	0.71	7.08	*	2.28 -	16.53
094	Telegraph Creek	7	6.71	*	1	0.22	4.59		0.06 -	25.54
161	Vancouver - City Centre	242	1.14	*	25	43.52	0.57	*	0.37 -	0.85
162	Vancouver - Downtown E.side	389	2.84	*	56	27.12	2.06	*	1.56 -	2.68
163	Vancouver - North East	145	0.65	*	23	44.90	0.51	*	0.32 -	0.77
164	Vancouver - Westside	128	0.46	*	31	55.04	0.56	*	0.38 -	0.80
165	Vancouver - Midtown	162	0.93		29	33.91	0.86		0.57 -	1.23
166	Vancouver - South	154	0.51	*	27	59.24	0.46	*	0.30 -	0.66
201	Surrey	544	0.85	*	102	132.66	0.77	*	0.63 -	0.93
202	South Surrey/White Rock	123	0.53	*	32	47.34	0.68	*	0.46 -	0.95
	PROVINCIAL TOTAL	**9,823**	**1.00**		**1,993**	**1,993.00**	**1.00**		**0.96 -**	**1.04**

Notes for this table follow the map.

FIGURE 44

ALCOHOL-RELATED DEATHS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 2002-2006



Notes to Table 41

Note: *Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed).

+Denotes significance based on less than five deaths. Coding practices from 1995 to 1999 may have produced over-counting of alcohol-related mortality. With the introduction of ICD-10 in 2000, more specific codes are available. Currently produced data should not be used in combination with data produced prior to 2000.

Note: Refer to Figure 1 to clarify geographical location of LHAs.

Smoking-Attributable Deaths

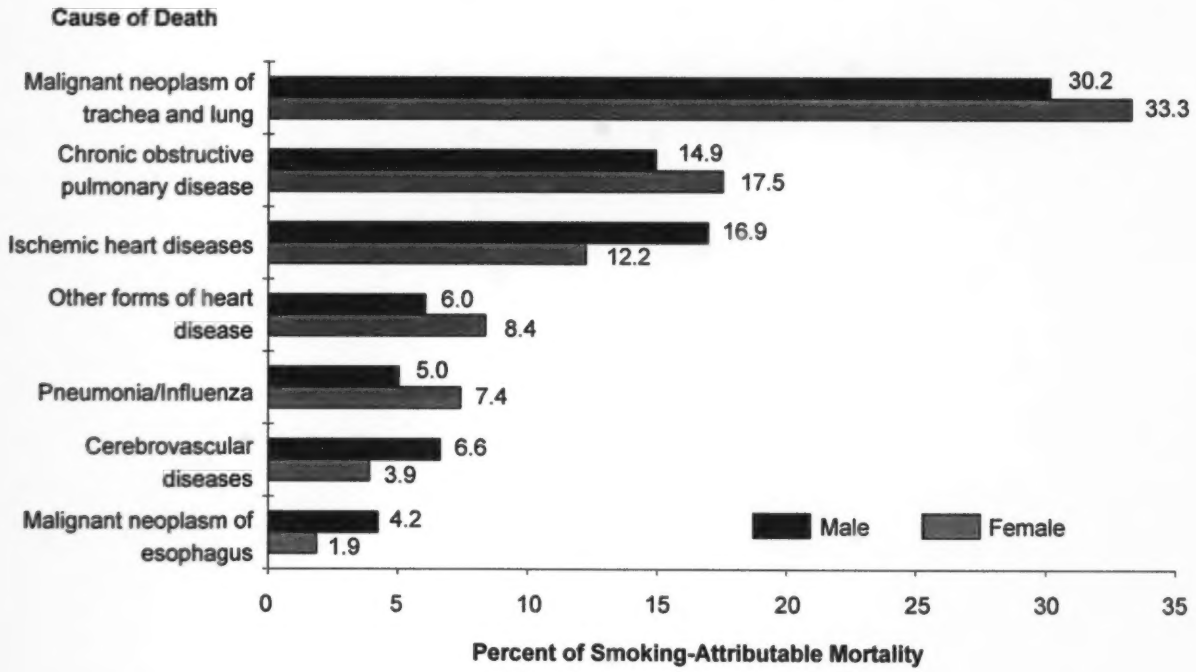
Table 42 and Figure 45 portray the number and percent of deaths in 2007 that were attributable to smoking for those 35 years old and older. The age restriction relates to the fact that smoking-attributable conditions generally become apparent over time and after several years of tobacco use. Because the decedent's smoking history is not available on the death record, the link between smoking and mortality is estimated indirectly. Research has indicated the fraction of deaths from certain diseases, like lung cancer, that are due to smoking and that fraction is then used to estimate the number of smoking attributable deaths due to those diseases. See the *Glossary* entry on *Smoking-Attributable Mortality (SAM)* for details and the *Methodology* section for the calculation formulae for these indicators.

Figure 45 shows the smoking attributable portion of each of 7 cause of death categories selected according to highest SAM number from Table 42.

Table 42 shows the number of deaths by causes and the percentage and number of those deaths that are attributed to smoking. Also shown is percentage total SAM by cause category.

In 2007, 6,138 deaths were attributed to the smoking as shown in Table 42. By far the largest contributory cause was *Malignant Neoplasms of the Trachea and Lung* (31.4 percent) followed by *Chronic Obstructive Pulmonary Disease* (16.0 percent) and *Ischemic Heart Disease* (15.1 percent).

FIGURE 45
SMOKING-ATTRIBUTABLE MORTALITY BY SELECTED CAUSES AND GENDER
BRITISH COLUMBIA, 2007



Note: Ischemic heart disease includes 35-64 years and 65+ years.
Cerebrovascular disease includes 35-64 years and 65+ years.

TABLE 42
SMOKING-ATTRIBUTABLE MORTALITY
BRITISH COLUMBIA, 2007

Cause of Death	ICD-10 Code(s)	Male				Female				Total		
		Deaths	SAM (%)	SAM Number	SAM Percent	Deaths	SAM (%)	SAM Number	SAM Percent	Deaths	SAM Number	SAM Percent
Malignant Neoplasms												
Malignant neoplasms of lip, oral cavity and pharynx	C00-C14	103	91.2	94	2.6	55	59.9	33	1.3	158	127	2.1
Malignant neoplasm of esophagus	C15	198	78.2	155	4.2	65	71.0	46	1.9	263	201	3.3
Malignant neoplasm of pancreas	C25	259	21.7	56	1.5	241	33.9	82	3.3	500	138	2.2
Malignant neoplasm of larynx	C32	36	79.7	29	0.8	7	87.2	6	0.2	43	35	0.6
Malignant neoplasm of trachea and lung	C33-C34	1,237	89.3	1,105	30.2	1,076	76.5	823	33.3	2,313	1,928	31.4
Malignant neoplasms of cervix, uterus	C53-C55	-	-	-	-	140	33.9	47	1.9	140	47	0.8
Malignant neoplasm of bladder	C67	201	44.8	90	2.5	88	37.6	33	1.3	289	123	2.0
Malignant neoplasm of kidney and other unspecified urinary organs	C64-C66, C68	131	46.8	61	1.7	59	12.4	7	0.3	190	69	1.1
SUBTOTAL*		**2,165**		**1,590**	**43.4**	**1,731**		**1,078**	**43.6**	**3,896**	**2,668**	**43.5**
Circulatory System Diseases												
Hypertension	I10-I13	115	24.6	28	0.8	170	16.4	28	1.1	285	56	0.9
Ischemic heart diseases :	I20-I25											
35-64 years		444	43.2	192	5.2	95	36.5	35	1.4	539	226	3.7
65+ years		2,034	21.1	429	11.7	1,836	14.6	268	10.8	3,870	697	11.4
Other forms of heart disease	I01-I09, I27 I30-I52	836	26.5	222	6.0	1,066	19.4	207	8.4	1,902	428	7.0
Cerebrovascular diseases :	I60-I69											
35-64 years		114	44.8	51	1.4	69	49.3	34	1.4	183	85	1.4
65+ years		820	23.4	192	5.2	1,303	4.8	63	2.5	2,123	254	4.1
Atherosclerosis	I70	40	55.5	22	0.6	61	31.7	19	0.8	101	42	0.7
Aortic aneurysm	I71	146	55.5	81	2.2	88	31.7	28	1.1	234	109	1.8
Other arterial diseases	I26, I28, I72-I78	90	55.5	50	1.4	112	31.7	36	1.4	202	85	1.4
SUBTOTAL*		**4,639**		**1,267**	**34.6**	**4,800**		**717**	**29.0**	**9,439**	**1,984**	**32.3**
Respiratory System Diseases												
Pneumonia/Influenza	J10-J181, J188, J189	564	32.7	184	5.0	696	26.3	183	7.4	1,260	367	6.0
Bronchitis, emphysema	J40-J43	80	84.7	68	1.8	73	79.2	58	2.3	153	126	2.0
Chronic obstructive pulmonary disease	J44	646	84.7	547	14.9	547	79.2	433	17.5	1,193	980	16.0
Other respiratory diseases	A15-A19, J45-J46	24	32.7	8	0.2	22	26.3	6	0.2	46	14	0.2
SUBTOTAL*		**1,314**		**807**	**22.0**	**1,338**		**680**	**27.5**	**2,652**	**1,487**	**24.2**
TOTAL*		**8,118**		**3,664**	**100.0**	**7,869**		**2,474**	**100.0**	**15,987**	**6,138**	**100.0**

Note: Deaths are the total number of deaths aged 35+ years or as specified in the diagnostic category.
SAM – derived by multiplying the SAM(%) by the number of deaths in each category.
See glossary under Smoking-Attributable Mortality Percent for a definition of the formula for SAM(%).
Non-residents are excluded.
The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.
*Total and Subtotal SAM numbers may not add up due to rounding.

Drug-Induced Deaths

Drug-induced deaths are all deaths directly due to drug use, and including use of illicit or prescribed drugs. This category excludes causes indirectly related to drug use and also excludes those deaths due to alcohol or smoking. See Table 44 for a list of the drug-induced death categories.

Table 43 shows that males (206 deaths) were more likely to die of drug-induced causes than females (128 deaths). 293 of the drug-induced deaths (87.7 percent) were among individuals aged 25 to 64 years. More than half of these deaths (158) were in the 45 to 64 year age-group.

Table 44 presents drug-induced deaths by cause for 2002-2006 and 2007. About two-thirds of those deaths in 2007 (66.8 percent) and in the previous 5 years, 2002-2006 (65.7 percent) were the result of unintentional poisoning by drugs. Of the 387 suicide deaths in BC in 2007, 18.6 percent were drug-induced.

Figure 46 is a graphic presentation of the results from Table 44. In 2007, drug-induced deaths were almost all due to poisoning, either unintentional or suicide.

Table 45 shows the number of observed and expected drug-induced deaths and the ratio of observed to expected deaths (SMR) in each LHA in 2007 and in the previous 5 years. Notice that 30 LHAs had no drug-induced deaths in 2007 and 7 had no drug-induced deaths in 2002-2006. Vancouver's City Center and Vancouver's Downtown East Side were the only 2 LHAs where the observed number was statistically significant and higher than the expected number (SMR ratio) in 2007 and the previous 5 years.

Figure 47 maps the variation of SMRs in the LHAs divided into quintiles for 2002-2006.

TABLE 43

DRUG-INDUCED DEATHS BY AGE AND GENDER

BRITISH COLUMBIA, 2007

Age	Male		Female		Total	
	Number	Percent	Number	Percent	Number	Percent
<15	-	-	-	-	-	-
15-19	1	0.5	1	0.8	2	0.6
20-24	8	3.9	7	5.5	15	4.5
25-44	91	44.2	44	34.4	135	40.4
45-64	95	46.1	63	49.2	158	47.3
65-84	7	3.4	9	7.0	16	4.8
85+	4	1.9	4	3.1	8	2.4
TOTAL	**206**	**100.0**	**128**	**100.0**	**334**	**100.0**

Note: Excludes tobacco and alcohol.
Drug-induced deaths – see Table 44 for ICD-10 codes and Glossary for more details.
Total percentage may not add up to 100 due to rounding.
Non-residents are excluded.

TABLE 44
DRUG-INDUCED DEATHS BY CAUSE
BRITISH COLUMBIA, 2002–2006 AND 2007

Cause of Death	ICD-10 Code(s)	Year of Death: 2002–2006 Number	2002–2006 Percent	2007 Number	2007 Percent
Psychoactive substance and drug use/abuse	F11-F16, F19	113	5.5	25	7.5
Accidental poisoning by drugs	X40-X44	1,361	65.7	223	66.8
Suicide by drugs	X60-X64	508	24.5	72	21.6
Assault by drugs and medicaments	X85	3	0.1	-	-
Poisoning by drugs and medicaments undetermined if accidental or intentional	Y10-Y14	68	3.3	9	2.7
Adverse effects of drugs and medicaments	Y40-Y574, Y577-Y579, Y598, Y880	19	0.9	5	1.5
Other drug causes*		1	-	-	-
TOTAL		**2,073**	**100.0**	**334**	**100.0**

Note: Excludes tobacco and alcohol. Total percentage may not add to 100 due to rounding. Non-residents are excluded.
*ICD-10 codes D521, D590, D592, D611, D642, E032, E064, E231, E242, E273, F55, F551, G210, G211, G240, G251, G254, G256, G444, G620, G720, H263, I427, I952, J702, J703, J704, L105, L233, L244, L251, L270, L271, L432, L560, L561, L640, M022, M102, M320, M804, M814, M835, M871, N140, N141, N142, O355, P040, P041, P044, P584, P961, P962, R781, R782, R783, R784, R785, R786, R825.

FIGURE 46
DRUG-INDUCED DEATHS BY CAUSE
BRITISH COLUMBIA, 2007

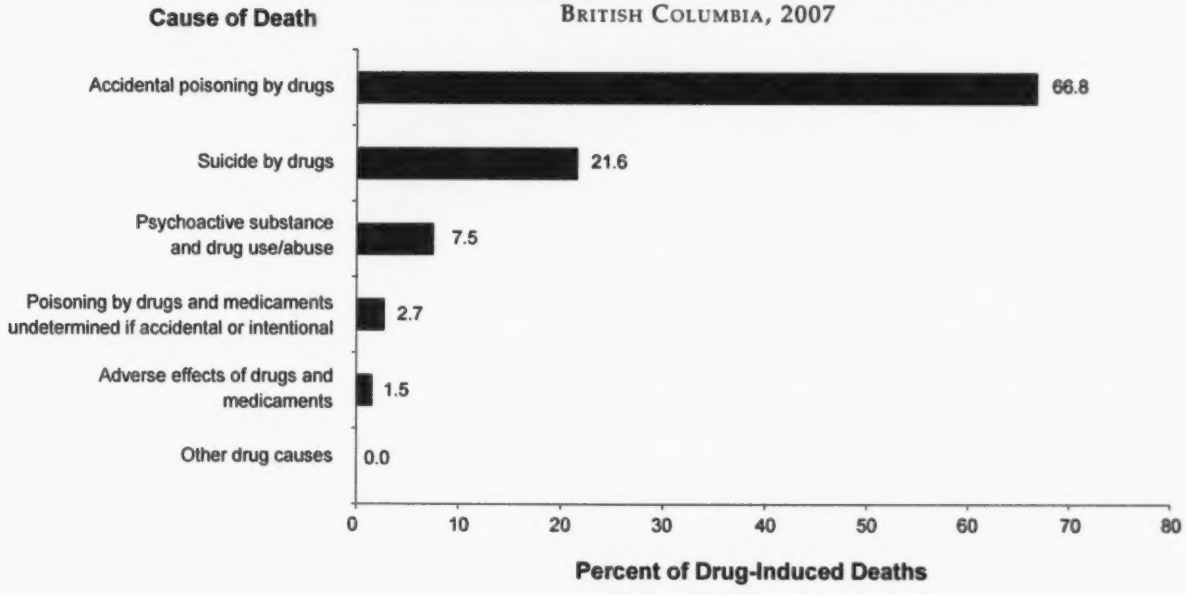


Table 45

STANDARDIZED MORTALITY RATIO BY LOCAL HEALTH AREA DRUG-INDUCED DEATHS, BRITISH COLUMBIA, 2002–2006 AND 2007

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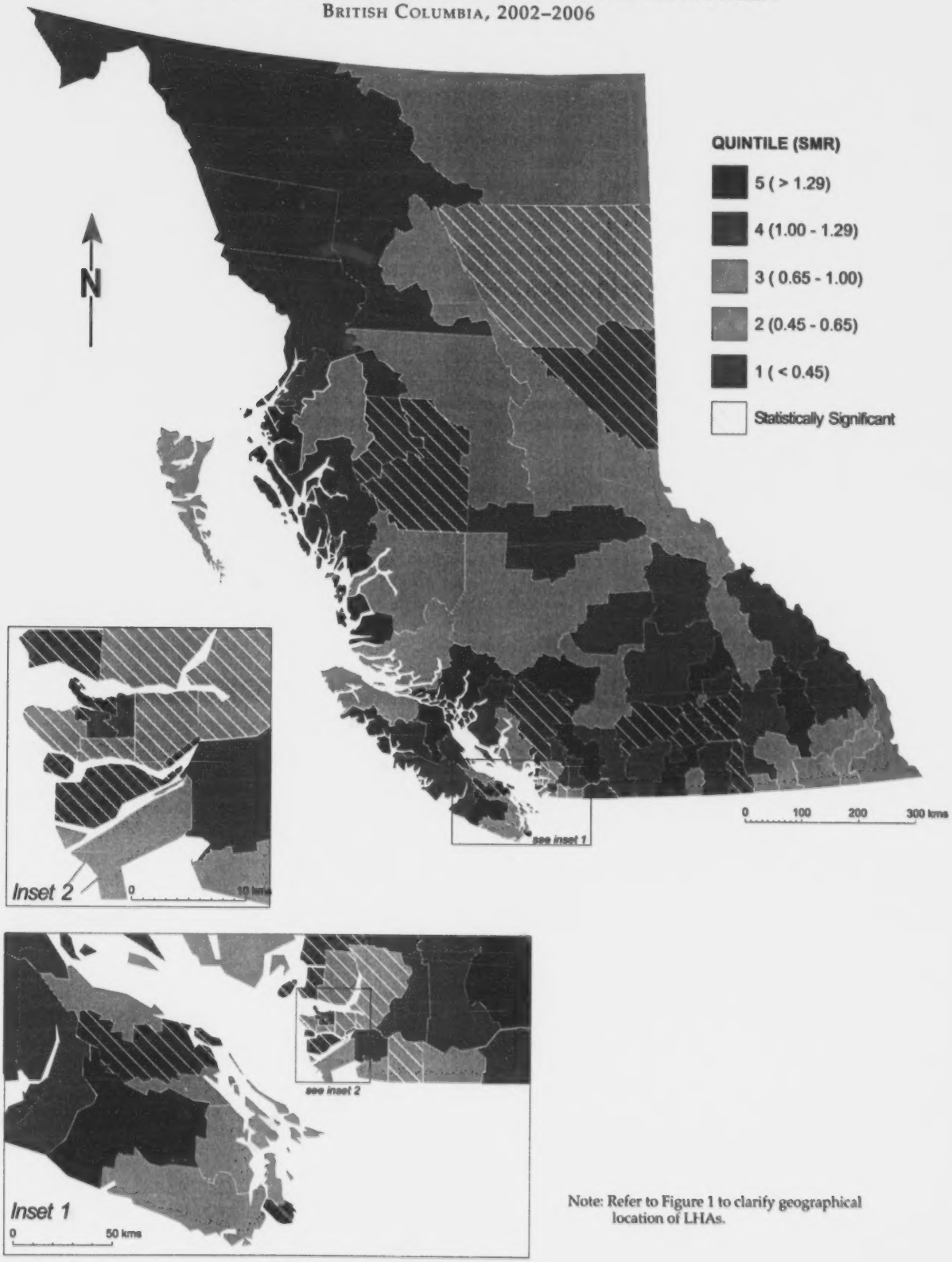
Local Health Area		2002–2006 Observed Deaths	2002–2006 SMR (p)		2007 Observed Deaths	2007 Expected Deaths	2007 SMR (p)		95% Confidence Interval Lower		Upper
001	Fernie	4	0.52		-	1.20	-		-	-	-
002	Cranbrook	9	0.74		3	1.92	1.56		0.31	-	4.56
003	Kimberley	2	0.48		-	0.67	-		-	-	-
004	Windermere	2	0.44		-	0.78	-		-	-	-
005	Creston	3	0.55		1	0.91	1.09		0.01	-	6.09
006	Kootenay Lake	3	1.62		-	0.31	-		-	-	-
007	Nelson	11	0.89		1	1.98	0.51		0.01	-	2.81
009	Castlegar	7	1.10		2	1.02	1.95		0.22	-	7.05
010	Arrow Lakes	3	1.25		-	0.38	-		-	-	-
011	Trail	9	0.92		3	1.54	1.95		0.39	-	5.71
012	Grand Forks	-	-	*	-	0.70	-		-	-	-
013	Kettle Valley	-	-		-	0.30	-		-	-	-
014	Southern Okanagan	4	0.48		3	1.43	2.10		0.42	-	6.13
015	Penticton	27	1.45		6	3.13	1.91		0.70	-	4.17
016	Keremeos	4	1.74		-	0.38	-		-	-	-
017	Princeton	3	1.24		1	0.40	2.50		0.03	-	13.92
018	Golden	1	0.27		-	0.59	-		-	-	-
019	Revelstoke	2	0.48		-	0.65	-		-	-	-
020	Salmon Arm	21	1.38		3	2.59	1.16		0.23	-	3.39
021	Armstrong - Spallumcheen	3	0.65		-	0.72	-		-	-	-
022	Vernon	56	1.95	*	3	4.81	0.62		0.13	-	1.82
023	Central Okanagan	102	1.33	*	9	13.18	0.68		0.31	-	1.30
024	Kamloops	59	1.16		5	8.29	0.60		0.19	-	1.41
025	100 Mile House	8	1.10		1	1.15	0.87		0.01	-	4.83
026	North Thompson	2	0.93		1	0.35	2.86		0.04	-	15.89
027	Cariboo - Chilcotin	11	0.83		4	2.04	1.96		0.53	-	5.01
028	Quesnel	12	1.02		1	1.81	0.55		0.01	-	3.07
029	Lillooet	3	1.38		-	0.34	-		-	-	-
030	South Cariboo	2	0.57		-	0.57	-		-	-	-
031	Merritt	11	2.03	*	1	0.86	1.16		0.02	-	6.45
032	Hope	5	1.28		1	0.62	1.62		0.02	-	8.99
033	Chilliwack	42	1.20		6	5.83	1.03		0.38	-	2.24
034	Abbotsford	47	0.80		12	9.40	1.28		0.66	-	2.23
035	Langley	41	0.72	*	9	9.29	0.97		0.44	-	1.84
037	Delta	36	0.73		5	7.63	0.66		0.21	-	1.53
038	Richmond	27	0.30	*	9	14.51	0.62		0.28	-	1.18
040	New Westminster	52	1.61	*	4	5.14	0.78		0.21	-	1.99
041	Burnaby	62	0.59	*	18	16.77	1.07		0.64	-	1.70
042	Maple Ridge	40	0.95		9	6.79	1.32		0.60	-	2.52
043	Coquitlam	68	0.66	*	8	16.06	0.50	*	0.21	-	0.98
044	North Vancouver	43	0.63	*	8	10.50	0.76		0.33	-	1.50
045	West Vancouver-Bowen Is.	7	0.30	*	2	3.78	0.53		0.06	-	1.91
046	Sunshine Coast	12	0.90		-	2.32	-		-	-	-
047	Powell River	11	1.13		4	1.58	2.54		0.68	-	6.50
048	Howe Sound	7	0.42	*	2	2.66	0.75		0.08	-	2.72
049	Bella Coola Valley	1	0.65		-	0.22	-		-	-	-
050	Queen Charlotte	2	0.76		-	0.40	-		-	-	-
051	Snow Country	-	-		-	0.05	-		-	-	-
052	Prince Rupert	10	1.32		1	1.10	0.91		0.01	-	5.06
053	Upper Skeena	1	0.38		1	0.39	2.57		0.03	-	14.28
054	Smithers	2	0.24	+	-	1.20	-		-	-	-
055	Burns Lake	-	-	*	-	0.58	-		-	-	-
056	Nechako	4	0.53		1	1.12	0.90		0.01	-	4.98
057	Prince George	37	0.76		9	7.45	1.21		0.55	-	2.29
059	Peace River South	5	0.39	*	-	2.02	-		-	-	-
060	Peace River North	7	0.46	*	1	2.46	0.41		0.01	-	2.26
061	Greater Victoria	166	1.55	*	22	17.29	1.27		0.80	-	1.93
062	Sooke	25	0.85		2	4.93	0.41		0.05	-	1.47
063	Saanich	25	0.84		1	4.84	0.21		0.00	-	1.15
064	Gulf Islands	6	0.86		1	1.21	0.82		0.01	-	4.59
065	Cowichan	23	0.90		3	4.19	0.72		0.14	-	2.09
066	Lake Cowichan	4	1.33		-	0.50	-		-	-	-
067	Ladysmith	5	0.61		-	1.40	-		-	-	-
068	Nanaimo	61	1.31	*	2	7.69	0.26	+	0.03	-	0.94
069	Qualicum	11	0.56		-	3.35	-		-	-	-
070	Alberni	18	1.16		3	2.44	1.23		0.25	-	3.59
071	Courtenay	27	0.94		7	4.85	1.44		0.58	-	2.98
072	Campbell River	29	1.44		5	3.27	1.53		0.49	-	3.56
075	Mission	24	1.25		5	3.14	1.59		0.51	-	3.71
076	Agassiz - Harrison	7	1.74		-	0.62	-		-	-	-
077	Summerland	1	0.19		-	0.88	-		-	-	-
078	Enderby	1	0.29		1	0.59	1.70		0.02	-	9.43
080	Kitimat	2	0.36		1	0.82	1.22		0.02	-	6.79
081	Fort Nelson	2	0.62		1	0.49	2.03		0.03	-	11.30
083	Central Coast	1	1.30		-	0.11	-		-	-	-
084	Vancouver Island West	-	-		-	0.18	-		-	-	-
085	Vancouver Island North	5	0.76		-	0.97	-		-	-	-
087	Stikine	-	-		-	0.08	-		-	-	-
088	Terrace	6	0.60		1	1.51	0.66		0.01	-	3.68
092	Nisga'a	1	1.08		1	0.14	7.19		0.09	-	39.99
094	Telegraph Creek	-	-		-	0.05	-		-	-	-
161	Vancouver - City Centre	92	1.50	*	18	10.06	1.79	*	1.06	-	2.83
162	Vancouver - Downtown E.side	178	5.57	*	46	5.17	8.90	*	6.51	-	11.87
163	Vancouver - North East	48	0.96		3	7.98	0.38		0.08	-	1.10
164	Vancouver - Westside	35	0.53	*	8	10.35	0.77		0.33	-	1.52
165	Vancouver - Midtown	45	1.00		10	6.95	1.44		0.69	-	2.65
166	Vancouver - South	37	0.57	*	3	10.18	0.29	+	0.06	-	0.86
201	Surrey	188	1.16		26	26.62	0.98		0.64	-	1.43
202	South Surrey/White Rock	30	0.81		4	6.25	0.64		0.17	-	1.64
	PROVINCIAL TOTAL	**2,073**	**1.00**		**334**	**334.00**	**1.00**		**0.90**	-	**1.11**

Note: *Statistical testing indicates that observed deaths are significantly different from the expected deaths ($p<0.05$, two tailed). +Denotes significance based on less than five deaths. SMR - Standardized Mortality Ratio. Total includes residents with unknown LHA.

FIGURE 47

DRUG-INDUCED DEATHS BY LOCAL HEALTH AREA

BRITISH COLUMBIA, 2002–2006



Note: Refer to Figure 1 to clarify geographical location of LHAs.

Drug Overdose Deaths

This section provides information on deaths due to unintentional poisoning by illicit/illegal drugs. These deaths are a small portion of deaths due to unintentional poisoning by drugs, and exclude accidental poisoning by drugs in therapeutic use.

Data on unintentional illicit/illegal drug deaths are retrieved from the Coroners' Medical Certificate of Death. This section only considers deaths where an overdose occurred and was determined to be the underlying cause of death. Deaths due to conditions that may arise from substance abuse, such as Hepatitis 'B' and 'C' and HIV, are excluded from consideration.

Among the substances implicated in these overdoses there are those generally referred to as "illicit drugs" – heroin, cocaine, and "psychostimulants with abuse potential" including "crystal meth" (methamphetamine hydrochloride) and "ecstasy" (methylenedioxy-methamphetamine). A more precise term for these chemicals might be "illegal" drugs as there is no medically recognized, legal use for either "ecstasy" or "crystal meth". Although both heroin and cocaine have very limited therapeutic uses, in circumstances where a fatal overdose has occurred it is almost certain that these drugs would have been obtained via illegal means.

On the other hand, where morphine is implicated, it is possible that some of the deaths involved legally obtained drugs because morphine is prescribed for chronic and/or severe pain (such as that associated with advanced cancer) and if taken improperly could result in an unintentional overdose. Unfortunately it is not always possible to differentiate whether an opiate overdose was caused by heroin or morphine, as the information received on the Coroners' final reports does not consistently differentiate. Often coroners record "morphine type" overdose, hence the label "heroin/morphine type".

Although methadone is often used legally in the treatment of opiate addiction, a number of deaths are occurring as the result of unintentional methadone overdoses. Therefore it would appear that methadone is being used in unsanctioned ways resulting in death.

Table 46 shows that deaths due to unintentional overdoses are not confined to any one area in the province. ASMRs for 2007 at the time of reporting appear to have declined in all areas except the Northern Health Authority. However, as with other externally caused deaths, reporting is often delayed due to the time required for coroners to complete and report their findings to the Agency. Therefore these results should be viewed with caution.

Table 47 and Figure 48, depict a general decline in drug overdose fatalities. The ASMR has been consistently much higher for males than for females.

TABLE 46
ASMR FOR UNINTENTIONAL ILLICIT/ILLEGAL OVERDOSE DEATHS BY HEALTH AUTHORITY
BRITISH COLUMBIA, 2001–2007

Health Authority	2001	2002	2003	2004	2005	2006	2007
01 Interior	0.60	0.56	0.67	0.69	0.66	0.44	0.31
02 Fraser	0.56	0.36	0.41	0.38	0.54	0.61	0.34
03 Vancouver Coastal	0.64	0.48	0.47	0.55	0.52	0.52	0.41
04 Vancouver Island	0.65	0.72	0.65	0.72	0.55	0.60	0.27
05 Northern	0.46	0.22	0.37	0.35	0.30	0.13	0.29
PROVINCIAL TOTAL	**0.59**	**0.46**	**0.50**	**0.52**	**0.53**	**0.52**	**0.34**

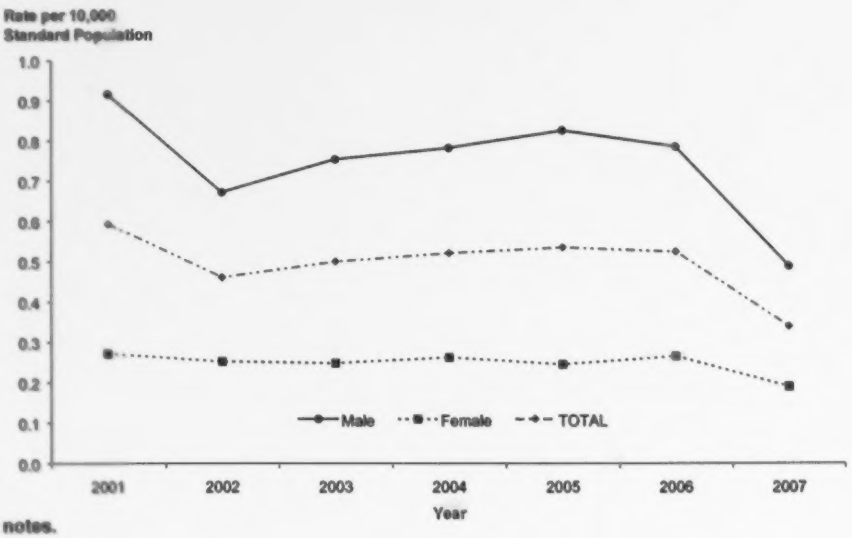
Note: Deaths that were still under investigation may later be identified as unintentional illicit/illegal.
ASMR - Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census).
Non-residents are excluded.

TABLE 47
ASMR FOR UNINTENTIONAL ILLICIT/ILLEGAL OVERDOSE DEATHS BY GENDER
BRITISH COLUMBIA, 2001–2007

Gender	2001	2002	2003	2004	2005	2006	2007
Male	0.92	0.67	0.75	0.78	0.82	0.78	0.49
Female	0.27	0.25	0.25	0.26	0.24	0.26	0.19
TOTAL	**0.59**	**0.46**	**0.50**	**0.52**	**0.53**	**0.52**	**0.34**

Note: Deaths that were still under investigation may later be identified as unintentional illicit/illegal overdose deaths.
ASMR - Age Standardized Mortality Rate per 10,000 standard population (Canada 1991 Census).
Non-residents are excluded.

FIGURE 48
ASMR FOR UNINTENTIONAL ILLICIT/ILLEGAL OVERDOSE DEATHS BY GENDER
BRITISH COLUMBIA, 2001-2007



See Table 47 for notes.

Accidental Falls Deaths

In 2007, there were 1,505 deaths due to external causes among BC residents and of these, unintentional (accidental) deaths comprised over 71 percent (1,079) of non-natural deaths. Overall, falls were the leading cause of unintentional death, contributing almost 30 percent to this category in 2007, exceeding fatal motor vehicle incidents in number (314 vs. 284), see Table 30. However, analysis of various causes of unintentional (accidental) mortality in 2007 shows that females were far more likely to die as the result of a fall than males. Only 22 percent of unintentional deaths among males were the result of falls. That proportion rose to just over 41 percent among females.

While fatal falls occur across the lifespan of British Columbians, the elderly are far more likely to succumb to the effects of a fall.

The data discussed so far only include events where the fall was determined to be the underlying cause of death (that is – the event that was directly responsible for the individual's demise). There are additional deaths that involve accidental falls, but where the fall was considered to be a contributing factor, not the direct cause of death.

Table 48 and Figure 49 show how age specific rates compare between the 2 categories (direct and indirect) of fall-related deaths in BC for individuals aged 60 and older. Clearly, if deaths indirectly caused by falls are included in total falls-related mortality, the extent of the lethal effect of falls among the elderly becomes far greater, and especially so for those 80 years and older.

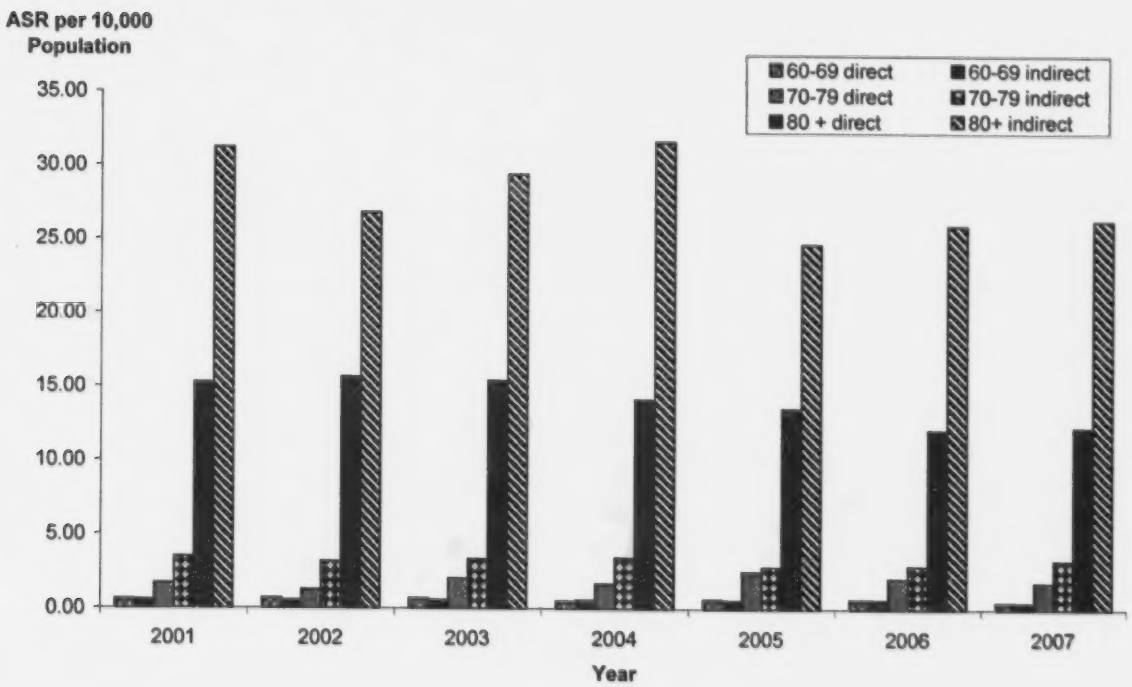
The BC Injury Research and Prevention Unit (BCIRPU) is a national leader in falls injury research and in the design and implementation of falls prevention strategies. A summary of the initiatives undertaken by the BCIRPU can be viewed at the Unit's website: http://www.injuryresearch.bc.ca/index.aspx go to "Falls Prevention" in the "Injury Topics" menu.

TABLE 48
DEATHS DIRECTLY AND INDIRECTLY DUE TO FALLS BY AGE
BRITISH COLUMBIA, 2001–2007

Cause of Death	Age (inYears)	2001		2002		2003		2004		2005		2006		2007	
		Counts	ASR	Counts	ASR	Counts	ASR	Counts	ASR	Counts	ASR	Counts	ASR	Counts	ASR
Directly due to falls															
	60-69	20	0.62	23	0.69	23	0.67	18	0.51	24	0.65	25	0.65	19	0.47
	70-79	43	1.71	32	1.26	52	2.03	44	1.70	65	2.49	55	2.07	48	1.79
	80+	208	15.27	224	15.62	231	15.38	221	14.11	220	13.53	204	12.10	223	12.78
Indirectly due to falls															
	60-69	19	0.59	18	0.54	20	0.58	21	0.59	21	0.57	24	0.63	18	0.44
	70-79	88	3.51	80	3.16	86	3.35	89	3.44	74	2.83	77	2.90	88	3.28
	80+	425	31.20	384	26.78	441	29.37	495	31.61	401	24.67	438	25.98	460	26.35

Note: ASR - Age Specific Rate per 10,000 population.

FIGURE 49
DEATHS DIRECTLY AND INDIRECTLY DUE TO FALLS, AGES 60-80+
BRITISH COLUMBIA, 2001-2007



Burials and Cremations

Table 49 shows the method used to dispose of decedents' remains. This table covers the years from 1986 through 2007. At the beginning of this time span the ratio of cremations to burials was three to two; in 2007 it was four to one.

TABLE 49
METHOD OF DISPOSITION OF DECEDENT
BRITISH COLUMBIA, 1986–2007

Year	Burial		Cremation		Other	N.S.	Total
	Number	Percent	Number	Percent			
1986	8,204	39.0	12,686	60.4	98	20	21,009
1987	8,211	38.0	13,279	61.4	104	24	21,618
1988	8,319	37.2	13,926	62.3	96	16	22,357
1989	8,061	35.4	14,616	64.1	81	28	22,786
1990	8,208	35.1	15,088	64.4	91	28	23,415
1991	8,035	33.7	15,675	65.8	75	34	23,820
1992	7,818	32.0	16,512	67.5	97	36	24,463
1993	7,987	31.2	17,214	67.2	151	251	25,603
1994	7,710	29.8	17,888	69.3	177	55	25,830
1995	7,616	29.0	18,361	70.0	185	63	26,225
1996	7,640	27.9	19,546	71.4	193	12	27,391
1997	7,359	27.0	19,651	72.1	207	46	27,263
1998	7,197	25.9	20,377	73.3	225	9	27,808
1999	7,061	25.3	20,630	74.0	197	-	27,888
2000	6,468	23.6	20,694	75.7	187	1	27,350
2001	6,684	23.7	21,329	75.5	223	1	28,237
2002	6,541	22.8	21,978	76.5	192	3	28,714
2003	6,607	22.7	22,362	76.7	186	-	29,155
2004	6,378	21.5	23,160	77.9	184	-	29,722
2005	6,278	20.9	23,630	78.5	184	-	30,092
2006	6,356	20.8	24,014	78.6	166	-	30,536
2007	6,145	19.8	24,794	79.7	166	-	31,105

Note: Percent is based on total deaths in the specified year.
Other includes remains not recovered and donations as per will of deceased.
N.S. – Not stated.
Non-residents are excluded.

Vital Statistics Information Box

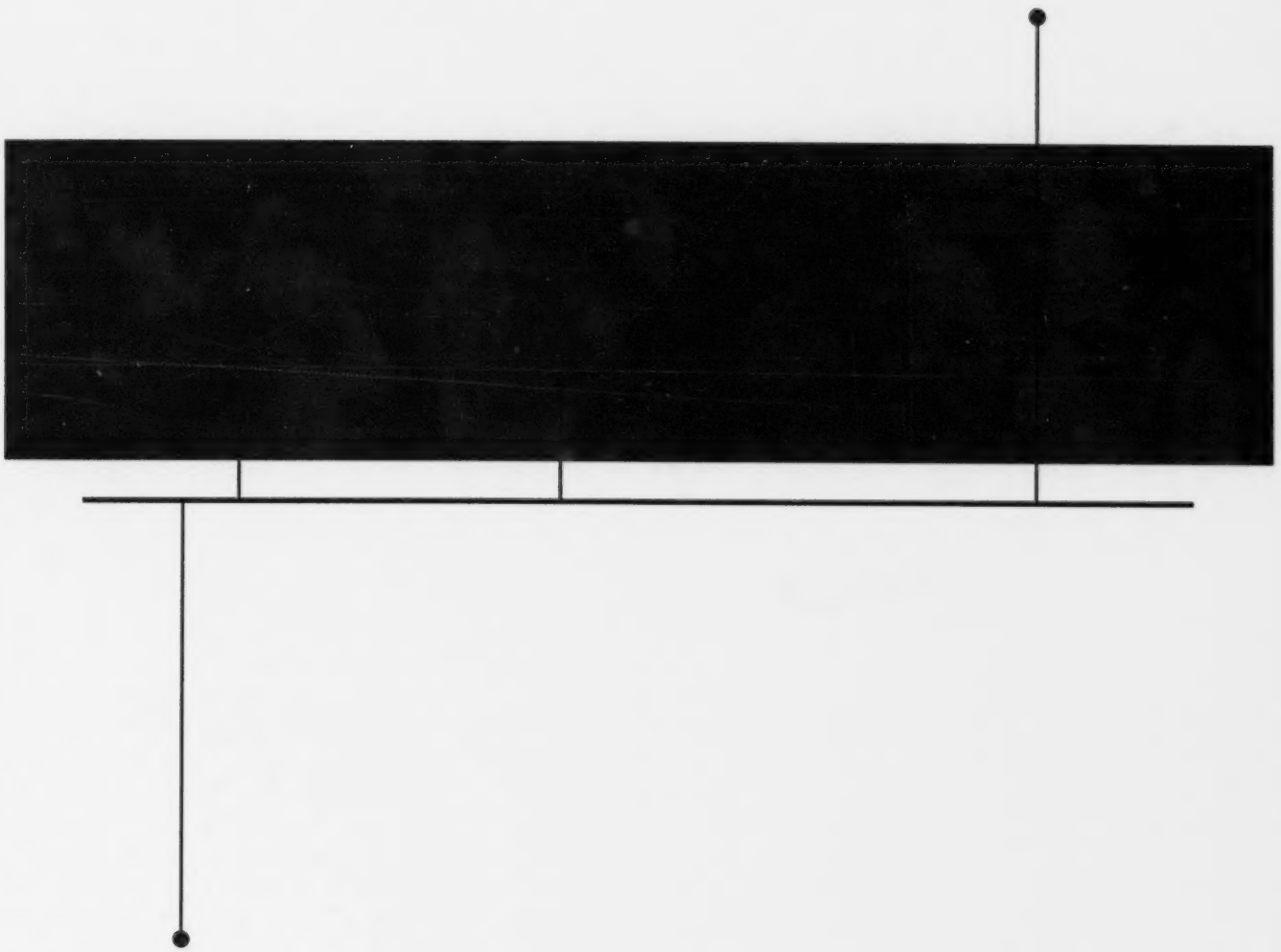
Method of Disposition by Decedent's Local Health Area of Residence

British Columbia, 2007

Local Health Area		Burial		Cremation		Other	Total
		Number	Percent	Number	Percent		
001	Fernie	16	20.0	63	78.8	1	80
002	Cranbrook	34	15.5	185	84.5	-	219
003	Kimberley	7	11.5	54	88.5	-	61
004	Windermere	5	10.4	43	89.6	-	48
005	Creston	36	24.8	109	75.2	-	145
006	Kootenay Lake	7	17.1	34	82.9	-	41
007	Nelson	47	22.7	159	76.8	1	207
009	Castlegar	34	28.3	86	71.7	-	120
010	Arrow Lakes	6	12.0	44	88.0	-	50
011	Trail	41	17.0	199	82.6	1	241
012	Grand Forks	38	31.7	82	68.3	-	120
013	Kettle Valley	4	18.2	18	81.8	-	22
014	Southern Okanagan	54	21.5	196	78.1	1	251
015	Penticton	72	15.2	402	84.8	-	474
016	Keremeos	4	6.3	60	93.8	-	64
017	Princeton	5	7.9	58	92.1	-	63
018	Golden	7	15.9	37	84.1	-	44
019	Revelstoke	12	23.5	39	76.5	-	51
020	Salmon Arm	42	13.0	281	86.7	1	324
021	Armstrong-Spallumcheen	6	7.8	71	92.2	-	77
022	Vernon	131	20.3	512	79.5	1	644
023	Central Okanagan	257	17.3	1,223	82.5	2	1,482
024	Kamloops	116	14.3	687	84.4	11	814
025	100 Mile House	17	12.5	118	86.8	1	136
026	North Thompson	10	23.8	32	76.2	-	42
027	Cariboo-Chilcotin	47	24.5	145	75.5	-	192
028	Quesnel	42	23.7	135	76.3	-	177
029	Lillooet	11	34.4	21	65.6	-	32
030	South Cariboo	19	27.1	51	72.9	-	70
031	Merritt	20	17.4	95	82.6	-	115
032	Hope	30	27.3	80	72.7	-	110
033	Chilliwack	146	21.1	546	78.8	1	693
034	Abbotsford	268	29.9	627	69.9	2	897
035	Langley	147	16.4	750	83.5	1	898
037	Delta	81	13.2	527	86.0	5	613
038	Richmond	241	26.5	664	73.0	4	90
040	New Westminster	81	16.1	420	83.3	3	50
041	Burnaby	370	26.9	974	70.9	29	1,373
042	Maple Ridge	81	15.4	445	84.4	1	527
043	Coquitlam	158	17.1	756	81.9	9	923
044	North Vancouver	121	14.4	711	84.6	8	840
045	West Vancouver-Bowen Is.	63	13.8	391	85.6	3	457
046	Sunshine Coast	27	8.8	280	91.2	-	307
047	Powell River	22	11.5	167	87.0	3	192
048	Howe Sound	25	21.0	94	79.0	-	119
049	Bella Coola Valley	7	41.2	9	52.9	1	17
050	Queen Charlotte	22	53.7	19	46.3	-	41
051	Snow Country	-	-	3	100.0	-	3
052	Prince Rupert	32	32.7	66	67.3	-	98
053	Upper Skeena	15	62.5	9	37.5	-	24
054	Smithers	34	32.7	70	67.3	-	104
055	Burns Lake/Eutsuk	27	48.2	29	51.8	-	56
056	Nechako	50	41.3	71	58.7	-	121
057	Prince George	122	20.4	472	79.1	3	597
059	Peace River South	50	28.1	128	71.9	-	178
060	Peace River North	47	30.7	106	69.3	-	153
061	Greater Victoria	301	14.0	1,840	85.4	13	2,154
062	Sooke	38	12.4	268	87.6	-	306
063	Saanich	77	11.6	586	88.1	2	665
064	Gulf Islands	10	6.9	135	93.1	-	145
065	Cowichan	73	15.5	398	84.5	-	471
066	Lake Cowichan	5	13.9	31	86.1	-	36
067	Ladysmith	22	10.1	193	88.9	2	217
068	Nanaimo	110	11.9	815	88.1	-	925
069	Qualicum	41	8.2	462	91.8	-	503
070	Alberni	58	20.6	222	79.0	1	281
071	Courtenay	43	8.4	467	91.6	-	510
072	Campbell River	41	13.1	273	86.9	-	314
075	Mission	43	15.0	241	84.3	2	286
076	Agassiz-Harrison	22	32.8	45	67.2	-	67
077	Summerland	20	14.4	119	85.6	-	139
078	Enderby	16	18.8	69	81.2	-	85
080	Kitimat	24	35.8	43	64.2	-	67
081	Fort Nelson	9	45.0	11	55.0	-	20
083	Central Coast	7	63.6	4	36.4	-	11
084	Vancouver Island West	-	-	11	100.0	-	11
085	Vancouver Island North	26	25.2	74	71.8	3	103
087	Stikine	3	75.0	1	25.0	-	4
088	Terrace	42	31.8	90	68.2	-	132
092	Nisga'a	16	88.9	2	11.1	-	18
094	Telegraph Creek	3	60.0	2	40.0	-	5
161	Vancouver - City Centre	111	17.5	517	81.5	6	634
162	Vancouver - Downtown E.side	156	30.6	349	68.6	4	509
163	Vancouver - North East	239	42.5	309	54.9	15	563
164	Vancouver - Westside	204	26.2	575	73.7	1	780
165	Vancouver - Midtown	180	37.0	302	62.0	5	487
166	Vancouver - South	297	35.7	530	63.8	4	831
201	Surrey	364	20.8	1,379	78.7	9	1,752
202	South Surrey/White Rock	125	13.9	766	85.4	6	897
	PROVINCIAL TOTAL	**6,146**	**19.8**	**24,794**	**79.7**	**166**	**31,106**

Note: Total includes residents with unkown LHA.

Marriage-related Statistics



Vital Statistics Information Box

MARRIAGES BY OTHER NON CHRISTIAN DENOMINATIONS
BRITISH COLUMBIA, 2007

Table 52, Religious Representatives on Register and Marriages Performed by Religious Denomination uses religious denomination categories from Statistics Canada. In 2007, a total of 1,161 marriages in BC were solemnized by representatives of Other Non Christian religions. The table below provides additional details about these marriages.

Religious Denomination	Number of Religious Representatives	Number Who Performed Marriages	Number of Marriages Performed
Baha'i	114	29	42
Buddhist	26	9	17
Hindu	30	16	65
Muslim	40	25	158
Sangam	10	4	13
Sikh	143	48	535
Spiritualist	80	43	308
Wiccan	15	9	14
Other*	41	9	9
Total Other Non Christian Religions	**499**	**192**	**1,161**

Note: *Other consists of religious denominations where the representatives performed less than 5 marriages in 2007: Eckankar, Konko-Kyo, Scientology, and Zoroastrian.

Marriage Introduction

The *Agency* records all marriages that occurred in BC. Unlike the birth and death statistics, which are based on usual residence, marriage information includes all marriages performed in the province whether the parties were residents or non-residents. The *Agency* does not record divorce decrees. The tables in this section contain information about marriages by previous marital status, ages of the parties involved, and type of ceremony. To avoid double counting, the cells in tables 50 and 51 provide information for each combination of marital status or age.

In Table 50 the 22,961 marriages are categorized by the previous marital status of each partner. In 2007, 64.5 percent (14,822) of couples were marrying for the first time and in 19.1 percent (4,380) 1 of the partners was marrying for the first time. There were 2,978 marriages (13.0 percent) where both partners were previously divorced.

Table 51 shows number of marriages by ages of those marrying in 2007. There were 7,383 marriages (32.2 percent) where both parties were in their twenties and 4,220 marriages (18.4 percent) where both parties were in their thirties. There were also 385 marriages (1.7 percent) where at least 1 party was in their teens and1,160 marriages (5.1 percent) where at least 1 of those marrying was 60 years or older.

Table 52 indicates that there were 7,501 registered religious representatives in BC but less than half of them (3,115) solemnized marriages in 2007. In total, 8,745 (38.1 percent) of all marriages in 2007, were solemnized by religious representatives.

Table 53 shows the number of marriages performed by marriage commissioners, both private and public servant, and the number of each type of commissioner with appointments in 2007.

Reviewing Tables 52 and 53, in 2007, 61.9 percent of marriages were of the civil type, performed by commissioners. Since 1988, when 42.5 percent of marriages were performed by commissioners, the percentage of marriages that were of the civil type has risen quite steadily.

TABLE 50
MARRIAGES BY MARITAL STATUS
BRITISH COLUMBIA, 2007

	Single	Widowed	Divorced	N.S.
Single	14,822			
Widowed	162	199		
Divorced	4,218	582	2,978	
N.S.	-	-	-	-

Note: N.S. - Not stated.

TABLE 51
MARRIAGES BY AGE
BRITISH COLUMBIA, 2007

Age (in Years)	15–19	20–24	25–29	30–34	35–39	40–44	45–49	50–59	60+	N.S.
15-19	57									
20-24	252	1,774								
25-29	64	2,179	3,430							
30-34	6	472	2,671	1,855						
35-39	3	138	694	1,548	817					
40-44	2	37	200	512	843	452				
45-49	1	14	57	152	350	610	446			
50-59	-	5	30	65	182	355	714	814		
60+	-	1	4	9	19	61	105	495	466	
N.S.	-	-	-	-	-	-	-	-	-	-

Note: N.S. – Not stated.

TABLE 52

RELIGIOUS REPRESENTATIVES ON REGISTER AND MARRIAGES PERFORMED BY RELIGIOUS DENOMINATION

BRITISH COLUMBIA, 2007

Religious Denomination	Number of Religious Representatives	Number Who Performed Marriages	Number of Marriages Performed
Anglican	518	211	534
Baptist	795	336	743
Eastern Orthodox	59	19	80
Jewish	34	15	44
Lutheran	253	111	259
Mennonite / Hutterite	420	236	455
Pentecostal	851	331	911
Presbyterian	215	84	168
Catholic	520	239	1,053
Salvation Army	183	45	92
Jehovahs Witness	89	57	136
United Church	514	282	961
Other Christian Religions	2,539	955	2,127
Other Non Christian Religions	504	192	1,161
Unknown / Not Stated	7	2	21
Total	**7,501**	**3,115**	**8,745**

Note: Religious categories shown above are from Statistics Canada. Individuals with temporary appointments are counted once for each appointment.

TABLE 53

MARRIAGE COMMISSIONERS ON REGISTER BY TYPE AND MARRIAGES PERFORMED

BRITISH COLUMBIA, 2007

Type of Commisioner	Number of Commissioners	Number Who Performed Marriages	Number of Marriages Performed
Private Commissioner*	472	435	14,215
Public Servant	11	1	1
Total	**483**	**436**	**14,216**

Note: Individuals with temporary appointments are counted once for each appointment.
* Includes 131 temporary appointments.

Vital Statistics Information Box

Usual Residence of Persons Married in British Columbia in 2007

Opposite Sex Marriages

Area	Province/State or Country	Males	Females
Canada	**Total**	**21,438**	**21,193**
	British Columbia	19,922	19,654
	Alberta	1,121	1,114
	Ontario	220	240
	Saskatchewan	66	68
	Manitoba	42	46
	Quebec	26	27
	Nova Scotia	13	14
	Yukon	10	11
	Northwest Territories	10	10
	Newfoundland & Labrador	5	6
	New Brunswick	2	2
	Nunavut	1	1
United States	**Total**	**414**	**549**
	Washington	115	163
	California	77	100
	Oregon	25	32
	Texas	23	27
	New York	19	25
	Florida	11	16
	Arizona	9	15
	Illinois	11	12
	Maryland	9	12
	North Carolina	7	11
	Idaho	7	9
	Virginia	6	10
	Minnesota	8	6
	Colorado	7	6
	Connecticut	5	6
	Ohio	5	6
	Pennsylvania	4	7
	Wisconsin	5	6
	Hawaii	5	5
	Nevada	6	4
	New Jersey	4	6
	Other	46	65
Mexico, Central & South America	**Total**	**7**	**22**
	Cayman Islands	4	4
	Mexico	-	6
	Other	3	12
Europe	**Total**	**177**	**233**
	United Kingdom	109	137
	Germany	35	43
	Switzerland	7	13
	France	4	7
	Spain	4	6
	Other	18	27
Asia & Middle East	**Total**	**30**	**70**
	Hong Kong	9	18
	Japan	8	18
	China	3	10
	Taiwan	5	6
	Other	5	18
Africa		**2**	**1**
Oceania		**31**	**31**
	Australia	26	27
	New Zealand	5	4
Unknown		-	-
TOTAL		**22,099**	**22,099**

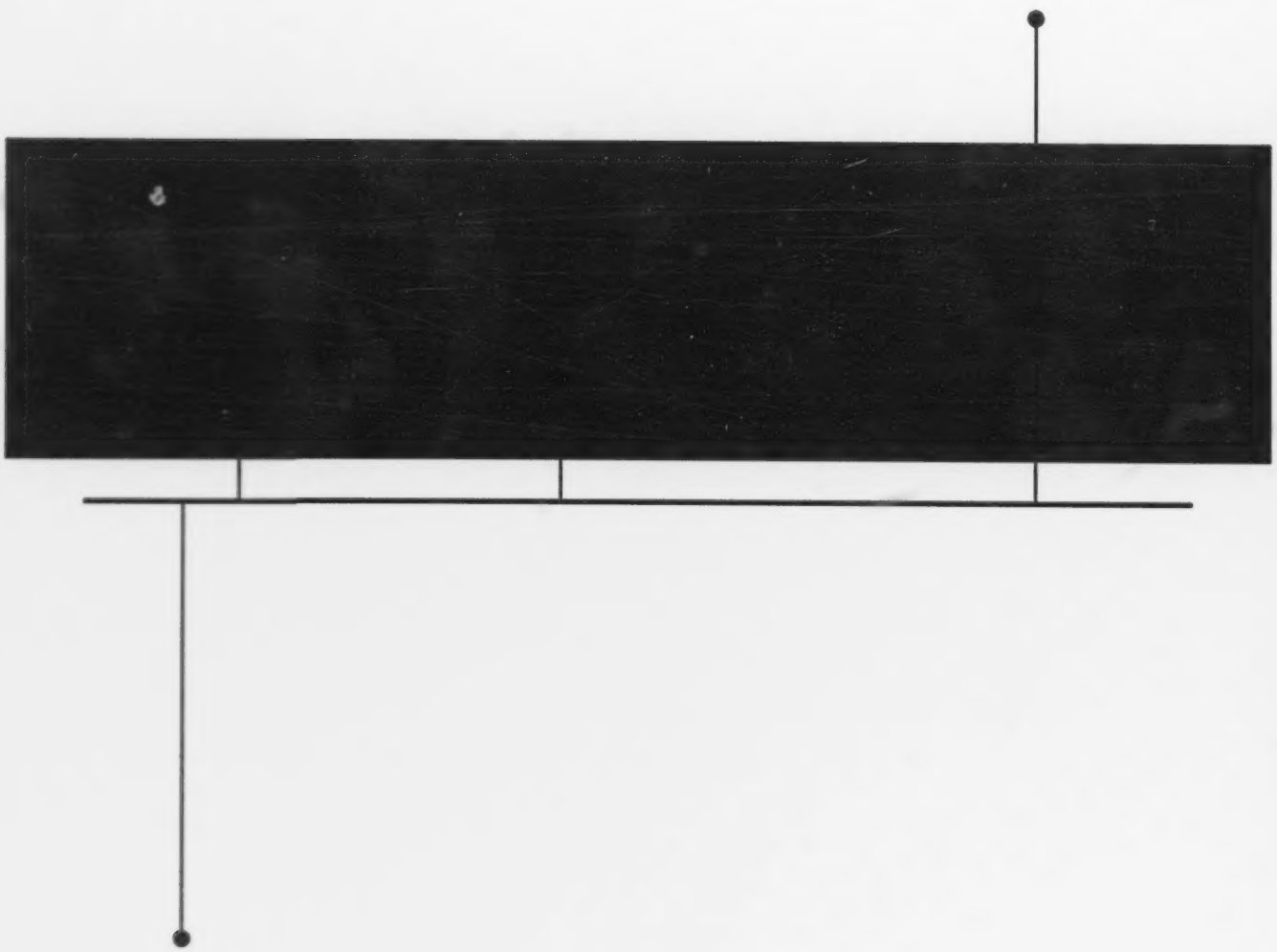
Vital Statistics Information Box

Usual Residence of Persons Married in British Columbia in 2007

Same Sex Marriages

Area	Province/State or Country	Males	Females
Canada	**Total**	**359**	**435**
	British Columbia	349	406
	Alberta	4	16
	Ontario	2	7
	Nova Scotia	2	2
	Manitoba	-	2
	Northwest Territories	2	-
	Quebec	-	2
United States	**Total**	**325**	**507**
	California	69	92
	Washington	43	98
	Texas	48	38
	Oregon	19	56
	Florida	23	16
	Arizona	14	21
	Colorado	4	20
	North Carolina	6	15
	Nevada	12	8
	Georgia	8	10
	New York	13	4
	Utah	8	8
	Virginia	5	11
	Other States	53	110
South America	**Total**	**2**	**-**
Europe	**Total**	**27**	**18**
	England	16	10
	Other	11	8
Asia & Middle East	**Total**	**9**	**12**
	Japan	3	3
	China	2	2
	Israel	2	2
	Hong Kong	-	3
	Other	2	2
Africa	**Total**	**-**	**-**
Oceania	**Total**	**18**	**12**
	Australia	18	12
Unknown		**-**	**-**
TOTAL		**740**	**984**

Glossary



Glossary Terms

ACQUIRED IMMUNODEFICIENCY SYNDROME (AIDS)

(See **HIV Disease.**)

AGE-SPECIFIC FERTILITY RATE (ASFR)

The rate of live births per 1,000 women for the specific age group. This is a more detailed measure than the crude birth rate, as it reflects variations in the birth rate by age groups of the female population.

(See ASFR under **Fertility Rate** in the Methodology section for an example.)

AGE STANDARDIZATION

Age standardized is a method of calculation which adjusts a statistical measure for differences in the age/gender structures between populations. With standardized measures, more meaningful comparisons can be made between genders, different time periods, or geographic areas, because the age standardized statistic is calculated as if all populations had the same age/gender population distribution.

The age standardized measures in this report include **Age Standardized Mortality Rate (ASMR), Standardized Mortality Ratio (SMR), Potential Years of Life Lost Standardized Rate (PYLLSR),** and **Potential Years of Life Lost Index (PYLLI).** (See the above headings in the Methodology section for examples.)

AGE STANDARDIZED MORTALITY RATE (ASMR)

A summary of age adjusted death rates by age and gender, which have been standardized to a 'standard' population (1991 Canada Census) for the purpose of rate comparisons between genders, different time periods or different geographic locations. The ASMR is the theoretical number of deaths that would occur per 10,000 population, if the specific population had the same age structure as the standard population. Age standardization is used for comparisons because populations vary in the proportions of the various ages of the individuals that comprise them, and such differences would in themselves tend to affect the disease occurring in each of the populations.

(See also **Age Standardization** and **Standard Population.** See **Age Standardized Mortality Rate** in the Methodology section for an example.)

AIDS

(See **HIV Disease.**)

ALCOHOL-RELATED DEATHS

Alcohol-related deaths include deaths where alcohol was a contributing factor (indirectly related) as well as those due to alcohol (directly related). Alcohol-related and drug overdose deaths are the only cause of death categories that are not based entirely upon underlying causes of death.

The ICD-10 codes for deaths due to the use or abuse of alcohol (directly related) are shown in Table 39. If any of the conditions listed as directly related to alcohol are noted on the Medical Certificate as antecedent causes giving rise to the underlying cause or as other significant conditions contributing to the death, the death is considered to be indirectly related to alcohol.

Coding practices from 1995 to 1999 may have produced over-counting of alcohol-related mortality. With the introduction of ICD-10 in 2000, more specific codes are available. Currently produced data should not be used in combination with data produced prior to 2000.

ASFR

(See **Age Specific Fertility Rate.**)

ASMR

(See **Age Standardized Mortality Rate.**)

AVERAGE AGE

The average ages of brides, grooms, and mothers of newborns in this annual report are calculated based on information provided on marriage or birth registration forms. The average ages of the population living in data dissemination areas are based on the mid-year population estimates for five-year age groups.

AVERAGE AGE POPULATION

The average age of the population is a grouped average based on the mid-year population estimates for five-year age groups. This information is provided by BCSTATS, Ministry of Labour and Citizens' Services.

BIRTH ORDER

Denotes the number position of the present birth relative to previous live births. That is, whether the live birth being counted is the 1st, 2nd, 3rd, etc. live born infant to a particular mother.

BIRTH RATE

The number of live births divided by the mid-year population and converted to a rate per 1,000 population.

BIRTH RELATED STATISTICS

The birth related statistics shown in this report include teenage mother, elderly gravida, C-section, low birth weight, and pre-term live birth rates.

BIRTH WEIGHT

The first weight of the fetus or newborn after birth. For live births this weight should be measured within the first hour of life before significant postnatal weight loss has occurred. Hospitals in BC measure weight in grams; the approximate equivalents in imperial measures are included below for comparisons to other jurisdictions. For statistical and risk assessment purposes, birth weights are grouped as:

- Low Birth Weight (LBW) less than 2,500 grams (< 5 lb 8 oz)
- "Healthy" Weight 2,500 to 4,499 grams (5 lb 8 oz - 9 lb 15 oz)
- High Birth Weight 4,500 grams or more (> 9 lb 15 oz)

Low birth weight is sometimes further divided into these overlapping categories:

- Extremely Low Birth Weight less than 500 grams (< 1 lb 2 oz)
- Very Low Birth Weight less than 1,500 grams (< 3 lb 5 oz)

In recent years there has been an increasing preference to identify high birth weight as Large for Gestational Age, which is above the 90th percentile of the birth weight distribution at each gestational age.

BIRTHS

(See **Total Births.**)

BREECH

A delivery in which the buttocks or feet appear first.
See also **Mode of Delivery**.

C-SECTION

A delivery by cesarean, involving the surgical incision of the abdomen and uterine walls.
See also **Mode of Delivery**.

C-SECTION RATES

The number of live births, delivered by cesarean divided by the number of live births and converted to a rate per 1,000 live births.

CESAREAN

A delivery involving the surgical incision of the abdomen and uterine walls.
See also **Mode of Delivery**.

COMMUNITY

A geographical area defined by a municipal (city, town, village, district municipality, Indian Government district, island minicipality, or resort municipality) boundary. In this report, data are only provided for incorporated communities.

CONFIDENCE INTERVAL

A measure of the variability of a statistic. A wide confidence interval indicates that the statistic is likely to fall within a wide range of values, while a narrow confidence interval indicates the statistic is likely to fall within a narrow range of values. In general, statistical confidence intervals will be wider for areas with small populations or rare events than for areas with larger populations or more common events.
(See **Statistical Tests of Significance** at the end of the Methodology section.)

CONGENITAL ANOMALIES

Physical defects that existed or date from birth.

CRUDE RATES

For live births:
the crude rate is the number of live births divided by the mid-year population and converted to a rate per 1,000 population.

For birth-related statistics (teenage mother, elderly gravida, C-section, low birth weight, and pre-term):
the rate is the number of these births divided by the number of live births and converted to a rate per 1,000 live births.

For stillbirths and perinatal deaths:
the rate is the number of stillbirths or perinatal deaths divided by the number of total births (live births plus stillbirths) and converted to a rate per 1,000 total births.

For infant deaths:
the crude rate is the number of infant deaths divided by the number of live births and converted to a rate per 1,000 live births.

For maternal deaths:
the rate is the number of maternal deaths divided by the number of live births, and converted to a rate per 10,000 live births.

For deaths and mortality statistics:
the crude rate is the number of deaths divided by the mid-year population and converted to a rate per 1,000 population.

For marriages:
the crude rate is the number of marriages divided by the mid-year population and converted to a rate per 1,000 population.

DEATH RATE

The number of deaths divided by the mid-year population and converted to a rate per 1,000 population.

DEATHS DUE TO MEDICALLY TREATABLE DISEASES

(See **Medically Treatable Diseases.**)

DRUG-INDUCED DEATHS

Deaths due to drug-induced causes. This category of deaths excludes unintentional injuries, homicides, and other causes that could be indirectly related to drug use. Deaths directly due to alcohol are also excluded. The causes of death classified as being drug-induced (shown in Table 44 with their ICD-10 codes) are based on those used by the National Center for Health Statistics.[1]

DRUG OVERDOSE DEATHS

Deaths where the underlying cause of death was determined to be unintentional poisoning by illicit/illegal drugs. These deaths are a small portion of the deaths due to unitentional poisoning by drugs, and exclude accidental poisoning by drugs in therapeutic use. Deaths due to conditions that may arise from substance abuse, such as Hepatitis 'B' and 'C' and HIV, are also excluded.

Drug overdose deaths can be divided according to drug type: heroin/morphine, methadone, cocaine, psychostimulants including "crystal meth" (methamphetamine hydrochloride) and "ecstasy" (methylenedioxymethamphetamine), and other mixed drugs. The ICD-10 codes for these deaths are shown in Table 46. It should be noted that specified drug (nature of injury) codes must also be listed on the Medical Certificate for the death to be considered a drug overdose.

EARLY NEONATAL DEATH

Death of a child under seven days of age.

See also **Infant Death**.

ELDERLY GRAVIDA

Any woman who was 35 years of age or older at the time of delivery of a live born infant.

ELDERLY GRAVIDA RATE

The number of live births delivered by women aged 35 years or older divided by the number of live births and converted to a rate per 1,000 live births.

EXPECTED CESAREAN BIRTHS

The number of live births delivered by cesarean section that would be expected to be born to residents of a sub-provincial geographic area, based on the C-section rate for the province as a whole, and the number of births in the sub-provincial geographic area.

(See **Observed versus Expected Ratio** in the Methodology section for an example.)

EXPECTED DEATHS

The number of deaths expected for residents of a sub-provincial geographic area, based on the age specific mortality rates for the province as a whole and the population age structure of the sub-provincial geographic area. (See **Standardized Mortality Ratio** in the Methodology section for an example.)

EXPECTED LOW BIRTH WEIGHT

The number of live births with low birth weight (less than 2,500 grams) that would be expected to be born to residents of a sub-provincial geographic area, based on the low birth weight rate for the province as a whole, and the number of live births in the sub-provincial geographic area.

(See **Observed versus Expected Ratio** in the Methodology section for an example.)

EXPECTED MATERNAL COMPLICATIONS

The number of live births with maternal complications that would be expected to be born to residents of a sub-provincial geographic area, based on the complication rate for the province as a whole, and the number of live births in the sub-provincial geographic area.

(See **Observed versus Expected Ratio** in the Methodology section for an example.)

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[1]National Center for Health Statistics (1993). Technical notes. Monthly Vital Statistics Report. 41 (Suppl. 7), 48.

EXPECTED PERINATAL COMPLICATIONS

The number of live births with perinatal conditions that would be expected to be born to residents of a sub-provincial geographic area, based on the rate of those conditions for the province as a whole, and the number of live births in the sub-provincial geographic area.

(See **Observed versus Expected Ratio** in the Methodology section for an example.)

EXPECTED POTENTIAL YEARS OF LIFE LOST

The number of potential years of life lost (to age 75 in this report) expected for residents of a sub-provincial geographic area based on the age specific mortality rates for the province as a whole and the population age structure of the sub-provincial geographic area.

(See **Potential Years of Life Lost Index** in the Methodology section for an example.)

EXTREMELY LOW BIRTH WEIGHT

A birth weight of less than 500 grams.

See also **Birth Weight**.

EXTREMELY PREMATURE

A gestational age of less than 28 weeks.

See also **Gestational Age**.

FERTILTIY RATE

The number of live births occurring in a given time period divided by the number of women of childbearing age for residents of a geographic area. BC rates are per 1,000 women aged 15 to 44; Canadian rates are per 1,000 women aged 15 to 49.

See also **Total Fertility Rate**.

FORCEPS

An assisted delivery employing forceps.

See also **Mode of Delivery**.

GESTATIONAL AGE

Fetal age or duration of pregnancy measured from the first day of the last normal menstrual period. Gestational age is expressed in completed days or completed weeks (e.g., events occurring 280 to 286 days after the onset of the last normal menstrual period are considered to have occurred at 40 weeks of gestation).

Measurements of fetal growth, as they represent continuous variables, are expressed in relation to a specific week of gestational age as follows:

- Pre-term — gestational age less than 37 weeks
- Term — gestational age of 37 to 41 weeks
- Post-term — gestational age of 42 weeks or more

Pre-term births can be further divided as follows:

- Extremely premature — gestational age of less than 28 weeks
- Moderately premature — gestational age of 28 to 36 weeks

HA

(See **Health Authority.**)

HEALTH AUTHORITY (HA)

A geographic subdivision of the province used by the Ministry of Health for administrative and data dissemination purposes. There are five health authorities plus the provincial HA. Health authorities can be subdivided into 16 Health Service Delivery Areas (HSDAs) or 89 Local Health Areas (LHAs). See Figure 2 for

HEALTH SERVICE DELIVERY AREA (HSDA)

A geographic subdivision of the province used by the Ministry of Health for data dissemination purposes. The 16 Health Service Delivery Areas can be aggregated into the five Health Authorities (HAs) plus the provincial HA, or subdivided into 89 Local Health Areas (LHAs). See Figure 2 for a map of the province by HSDAs.

"HEALTHY" WEIGHT

A birth weight of 2,500 to 4,499 grams.
See also **Birth Weight**.

HIGH BIRTH WEIGHT

A birth weight of 4,500 grams or more.
See also **Birth Weight**.

HIV DISEASE

In 1987 the World Health Organization added new codes to the ***International Classification of Diseases*** (ICD) to identify Acquired Immunodeficiency Syndrome (AIDS) and Human Immunodeficiency Virus (HIV). In ICD-10, these conditions are coded to B20–B24 and are called HIV disease.

HSDA

(See **Health Service Delivery Area.**)

HUMAN IMMUNODEFICIENCY VIRUS (HIV)

The virus that causes HIV disease.

ICD-9 CODES

The World Health Organization's ***International Classification of Diseases, Ninth Revision***. This version of ICD was used by the B.C. Vital Statistics Agency for coding birth complications and causes of death from 1979 until 1999. Translation tables were developed and extensive manual reviews conducted in order to recode causes of death from ICD-9 to ICD-10, permitting direct comparison of cause of death trends including deaths from 1999 and earlier that were originally coded in ICD-9.

ICD-10 CODES

The World Health Organization's ***International Statistical Classification of Diseases and Related Health Problems, Tenth Revision,*** implemented by the B.C. Vital Statistics Agency on January 1, 2000. The Preamble to Appendix 2 presents a summary of ICD-10 codes.

INFANT DEATH

Death of a child under one year of age. These deaths are divided according to age at death because of the high mortality rates that occur in the periods soon after birth and because different environmental factors underlie the cause of death in the different time periods.

- Neonatal death — death of children less than 28 days after birth
- Post neonatal death — death of children from 28 to 364 days after birth

Neonatal deaths are further divided as follows:

- Early neonatal death — death of children less than 7 days after birth
- Late neonatal death — death of children from 7 to 27 days after birth

INFANT MORTALITY RATE

The number of deaths of children under one year of age expressed as a rate per 1,000 live births. The infant mortality rate is an internationally accepted indicator of the health status of a population.

LATE NEONATAL DEATH

Death of a child from 7 to 27 days of age.
See also **Infant Death.**

LBW

(See **Low Birth Weight.**)

LHA

(See **Local Health Area.**)

LIFE EXPECTANCY

Life expectancy at birth represents the mean number of years a birth cohort (persons born in the same year) may expect to live given the present mortality experience of a population. The life expectancy for a population is a summary measure that reflects the mortality rates for all ages combined, weighted in accordance with a life-table population structure. Life expectancy is an internationally accepted indicator of the health status of a population. Life expectancy is provided by BCSTATS, Ministry of Labour and Citizens' Services.

LIVE BIRTH

The ***Vital Statistics Act*** defines a live birth as "The complete expulsion or extraction from its mother, irrespective of the duration of the pregnancy, of a product of conception in which, after the expulsion or extraction, there is:

(a) breathing;
(b) beating of the heart;
(c) pulsation of the umbilical cord; or
(d) unmistakable movement of voluntary muscle, whether or not the umbilical cord has been cut or the placenta attached."

LIVE BIRTH RATE

The number of live births divided by the mid-year population and converted to a rate per 1,000 population.

LOCAL HEALTH AREA (LHA)

A geographic subdivision of the province used by the Ministry of Health for data dissemination purposes. The 89 local health areas can be aggregated into 16 Health Service Delivery Areas (HSDAs) or five Health Authorities (HAs) plus the provincial HA. See Figure 1 for a map of the province by LHAs.

LOW BIRTH WEIGHT (LBW)

A birth weight of less than 2,500 grams. Low birth weight babies have increased risks of morbidity and premature death.
See also **Birth Weight.**

LOW BIRTH WEIGHT RATE

The number of low birth weight live born babies per 1,000 live births.

MARRIAGE RATE

The number of marriages divided by the mid-year population and converted to a rate per 1,000 population.

MATERNAL DEATH

Death of a woman while pregnant or within 42 days of termination of pregnancy from causes related to the pregnancy, but not from accidental or incidental causes.

MATERNAL DEATH RATE

The number of maternal deaths divided by the number of live births, and converted to a rate per 10,000 live births.

MEDICALLY TREATABLE DISEASES, DEATHS DUE TO

Deaths due to medically treatable diseases are based on Charlton's[2] classification. The disease categories are ones for which mortality could potentially have been avoided through appropriate medical intervention. It should be noted that the causes are considered to have been medically treatable only if the death occurred to persons within a specified age range (see footnotes to Table 37).

The incidence of deaths from medically treatable diseases can be used by public health professionals as a way of monitoring the effect of health promotion programs.

MODE OF DELIVERY

The modes of delivery presented in this report consist of cesarean, forceps, spontaneous breech, spontaneous vertex, and vacuum (or suction).

Cesarean:
A delivery involving the surgical incision of the abdomen and uterine walls.

Forceps:
An assisted delivery employing forceps.

Spontaneous Breech:
An unassisted (spontaneous) delivery in which the buttocks or feet of the fetus appear first.

Spontaneous Vertex:
An unassisted (spontaneous) delivery in which the head of the fetus appears first.

Vacuum:
An assisted delivery employing suction or vacuum.

MODERATELY PREMATURE

A gestational age of 28 to 36 weeks.
See also **Gestational Age**.

MVA DEATHS

Motor Vehicle Accidental Deaths.

NATURAL POPULATION INCREASE (NPI)

The component increase in a population due to the number of live births less deaths; also called Natural Population Growth. This increase is often expressed as a rate, such as per 1,000 population. It does not include increases due to immigration or decreases due to emigration.

NEONATAL DEATH

Death of a child under 28 days of age.
See also **Infant Death**.

NPI

(See **Natural Population Growth.**)

OBSERVED DEATHS

The actual number of deaths that occurred to residents of a sub-provincial geographic area in a specified time period.

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[2]Charlton, J.R.H. (1987). Avoidable Deaths and Diseases as Monitors of Health Promotion. In T. Abelin, Z.J. Brzezinski, & V. Carstairs (Eds.), ***Measurement in Health Promotion and Protection*** (pp.467-479). Copenhagen, Denmark: World Health Organization, Regional Office for Europe.

OBSERVED DEATHS

The actual number of deaths that occurred to residents of a sub-provincial geographic area in a specified time period.

OBSERVED LOW BIRTH WEIGHT LIVE BIRTHS

The actual number of low birth weight live births that occurred to residents of a sub-provincial geographic area in a specified time period.

OBSERVED MATERNAL COMPLICATIONS

The actual number of maternal complications that occurred to residents of a sub-provincial geographic area in a specified time period.

OBSERVED PERINATAL CONDITIONS

The actual number of perinatal conditions that occurred to residents of a sub-provincial geographic area in a specified time period.

OBSERVED PYLL

The actual number of potential years of life lost (to age 75) from deaths that occurred to residents of a sub-provincial geographic area in a specified time period.

OUT-OF-WEDLOCK BIRTHS

Births where the mother of the baby is not lawfully married to the father of the baby.

OVERDOSE DEATHS

(See **Drug Overdose Deaths.**)

P-VALUE

The probability of rejecting the null hypothesis when a specified test procedure is used on a given data set. The data are statistically significant when the null hypothesis is rejected and not significant otherwise.
(See **Statistical Test** in the Methodology section for examples.)

PERINATAL

Pertaining to or occurring in the period shortly before, during and after birth, starting at 22 completed weeks of gestation and ending seven completed days after birth.

PERINATAL DEATH RATE

The number of perinatal deaths divided by the number of total births (live births plus stillbirths) and converted to a rate per 1,000 total births.

POPULATION

Mid-year population estimates used in the preparation of this report were obtained from BC STATS, Ministry of Labour and Citizens' Services.

POST MATURE

(See **Post-Term.**)

POST NEONATAL DEATH

Death of a child between the ages of 28 days and 364 days.
See also **Infant Death**.

POST TERM

A gestational age of 42 weeks or more.
See also **Gestational Age**.

PREMATURE

(See **Pre-Term.**)

PRE-TERM

A gestational age less than 37 weeks.
See also **Gestational Age**.

PRE-TERM RATE

The number of pre-term live births divided by the number of live births and converted to a rate per 1,000 live births.

PYLL INDEX (PYLLI)

The ratio of an area's observed PYLL to its expected PYLL. This is a health status indicator.
(See **Potential Years of Life Lost Index (PYLLI)** in the Methodology section for an example.)

PYLL STANDARD RATE (PYLLSR)

An age-standardized measure of an area's PYLL, expressed in terms of a rate per 1,000 population, adjusted to a standard population (1991 Canada Census). This is a health status indicator.
(See PYLLSR under **Potential Years of Life Lost (PYLL)** in the Methodology section for an example.)

PYLL

(See **Potential Years of Life Lost.**)

PYLL %

The percent of all PYLL in the age group due to a specified cause of death.

PYLLI

(See **PYLL Index.**)

PYLLSR

(See **PYLL Standardized Rate.**)

QUINTILE

A ranking is derived by dividing a group (e.g., LHAs within British Columbia) into five subgroups, each with equal numbers of LHAs. (Since there are 89 LHAs and 89 is not evenly divisible by five, there is one less LHA in the middle group.) These divisions are derived from a ranking of the group members according to the value of a measure, such as the SMR or the PYLLI.

SAM

(See **Smoking-attibutable Mortality.**)

SIDS

Sudden Infant Death Syndrome.

SMOKING-ATTRIBUTABLE MORTALITY (SAM)

The absence on death certifications of complete and reliable data on smoking requires the use of estimation techniques to approximate the extent of smoking-attributable deaths. Estimation methods, while not precise, may at least provide a general indication of the extent of such deaths. This report uses an estimation method based on the concept of attributable risk, which is described in the Methodology section.

Smoking-attributable deaths are derived by multiplying a smoking-attributable mortality percentage by the number of deaths aged 35+ in specified cause of death categories. These categories are comprised of selected malignant neoplasms, circulatory system diseases, and respiratory system diseases, and are listed in Table 42.
(See **Smoking-Attributable Mortality** in the Methodology section for more details.)

SMR

(See **Standardized Mortality Ratio.**)

STANDARD POPULATION

A reference population of known age distribution used in the calculation of standardized indicators to adjust for variations in population age structures in different geographic areas or time periods. For SMR and PYLLI calculations the standard population is the British Columbia population for the year(s) concerned. The 1991 Canadian Census is used as the standard population in the calculation of ASMR and PYLLSR.

STANDARDIZED MORTALITY RATIO (SMR)

The ratio of the number of deaths occurring to residents of a geographic area (e.g., LHA) to the expected number of deaths in that area based on provincial age-specific mortality rates. The SMR is a good measure for comparing mortality data that are based on a small number of cases or for readily comparing mortality data by geographical area. SMR is an internationally recognized health status indicator.

See also **Age Standardization** and **Standard Population**.

(See **Standardized Mortalilty Ratio** in the Methodology section for an example.)

STILLBIRTH

Since 1986, the ***Vital Statistics Act*** defines a stillbirth as "The complete expulsion or extraction from its mother after at least 20 weeks of pregnancy, or after attaining a weight of at least 500 grams, of a product of conception in which, after the expulsion or extraction, there is no breathing, beating of the heart, pulsation of the umbilical cord, or unmistakable movement of voluntary muscle."

The definition of a stillbirth has changed over the years. From 1950 until July 1, 1962, the definition of a stillbirth was the birth of a viable fetus after at least 28 weeks pregnancy in which pulmonary respiration does not occur, whether death occurs before, during, or after birth. From July 1, 1962 until January 1, 1986, the definition of a stillbirth did not include the phrase "or after attaining a weight of at least 500 grams."

STILLBIRTH RATE

The number of stillbirths divided by the number of total births (live births plus stillbirths) and converted to a rate per 1,000 total births.

See also **Crude Rates**.

TEENAGE MOTHERS

Mothers less than 20 years of age.

TEENAGE MOTHER LIVE BIRTH RATE

The number of live births to teenage mothers divided by the number of live births and converted to a rate per 1,000 live births.

TERM

A gestational age of 37 to 41 weeks.

See also **Gestational Age**.

TFR

(See **Total Fertility Rate.**)

TOTAL BIRTHS

The number of live births plus stillbirths.

TOTAL FERTILITY RATE (TFR)

The number of births that a group of 1,000 women would have if, during their childbearing years, they had the age-specific birth rates observed in a given calendar year. TFR is a hypothetical measure of completed family size based on current levels of fertility by age.

(See TFR under **Fertility Rate** in the Methodology section for an example.)

TOTAL PYLL

The total number of potential years of life lost prior to an established cut-off point of 75 years.

UCOD

(See **Underlying Cause of Death.**)

UNDERLYING CAUSE OF DEATH (UCOD)

The World Health Organization defines the underlying cause of death as "(a) the disease of injury which initiated the train of events leading directly to death, or (b) the circumstances of the accident or violence which produced the fatal injury."

VACUUM

An assisted delivery employing suction or vacuum.
See also **Mode of Delivery**.

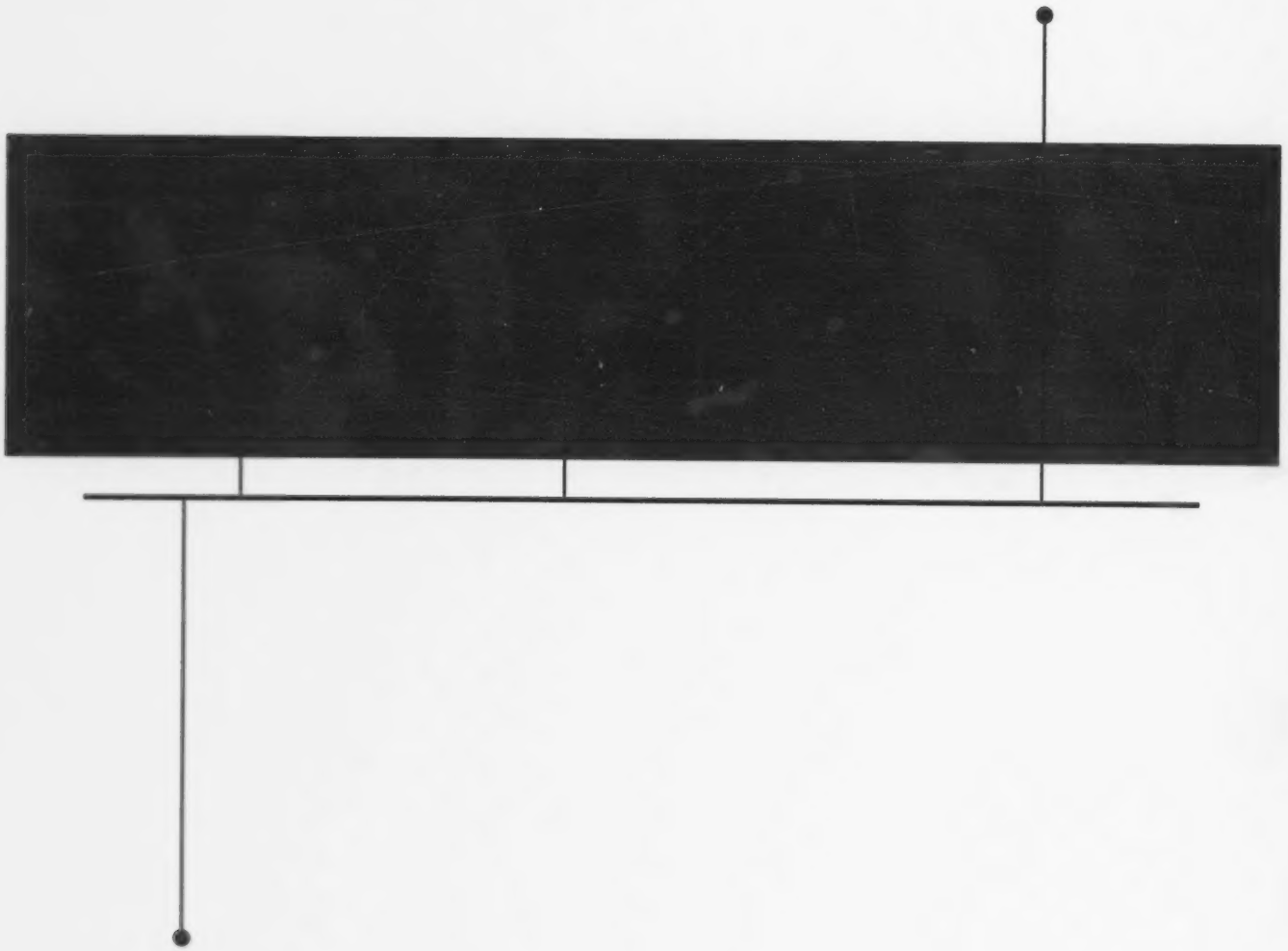
VERTEX

A delivery in which the head of the fetus appears first.
See also **Mode of Delivery**.

VERY LOW BIRTH WEIGHT

A birth weight of less than 1,500 grams.
See also **Birth Weight**.

Methodology



Methodology

Population statistics inevitably involve comparisons of sub-populations, regions, and time periods. To many, such comparisons are often too complex so that interpretation becomes a formidable task. However, those comparisons are necessary in order to understand the health status of specific populations within British Columbia. The text that accompanies the tables and figures in this report explains the basic meaning of the comparisons but, for some, a more in depth explanation is useful and necessary.

This section provides the reader with computational examples of how various measures are calculated. All data shown in the examples are hypothetical. These routines are referenced in the discussion accompanying specific tables and figures where they are used and are arranged alphabetically. In some cases a test of statistical significance is noted in the discussion and those routines will be found at the end of this part of the report.

Examples of the these statistical computations follow:

RATES
- Age Standardized Mortality Rate (ASMR)
- Fertility Rates
  - Total Fertility Rate (TFR)
  - Age Specific Fertility Rates (ASFRs)
- Potentional Years of Life Lost (PYLL) and Standardized Rate (PYLLSR)

RATIOS
- Observed versus Expected Ratios
  - Low Birth Weight (LBW) Live Births
  - Potential Years of Life Lost Index (PYLLI)
  - Standardized Mortality Ratio (SMR)

ESTIMATION OF SMOKING ATTRIBUTABLE MORTALITY (SAM)

STATISTICAL TESTS OF SIGNIFICANCE
- Chi-Square
- Confidence Intervals
- P-Value

RATES
- Age Standardized Mortality Rate (ASMR)

Although a hypothetical LHA is used in the example cited here, the ASMR was also calculated for yearly death data, for example Figure 16, and specific cause groups, for example Table 21, to permit comparisons between items in those tables or figures. The example shown below can be applied to those measures as well. The test of statistical significance is described under Rates in Statistical Tests of Significance at the end of this Appendix.

Age Group (i)	Standard Population (π_i)	LHA Estimated Population (p_i)	LHA Death Rate/10,000 (m_i)	LHA Observed Deaths (d_i)
< 1	403,061	1,339	22.4	3
1 – 4	1,550,285	5,483	1.8	1
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
80 – 84	382,303	1,198	701.2	84
85 +	287,877	908	1596.9	145
TOTAL	28,120,065	81,016		561

For the Local Health Area:

$$ASMR = \frac{\sum m_i \times \pi_i}{\prod} = \frac{22.4 \times 403{,}061 + \ldots + 1{,}596.9 \times 287{,}877}{28{,}120{,}065} = 46.2$$

Where: p_i =area population in age group i;
π_i =standard population in age group i;
$\prod = \sum \pi_i$ = total standard population;
d_i =deaths in LHA population in age group i; and
m_i $= d_i / p_i \times 10{,}000$ = mortality rate per 10,000 LHA population in age group i.

e.g., $m_i = \frac{3 \times 10{,}000}{1{,}339} = 22.4$, for age group 1.

- Fertility Rates

Fertility Rates include the Total Fertility Rate (TFR) and Age Specific Fertility Rates (ASFRs). Although the TFR is calculated for a hypothetical LHA in the example cited here, the calculation method was applied to each year in Table 3 and Figure 5 and to each of the LHAs in Table 10. The teenage fertility rates shown in Table 10 and Figure 29 are the teenage-specific fertility rates, that is the ASFRs for 15-19 year olds, exemplified below.

Age Group (i)	LHA		
	Live Births (b_i)	Female Population (w_i)	Age Specific Fertility Rate ($ASFR_i$)
15 – 19	19	598	31.8
20 – 24	46	440	104.5
25 – 29	74	498	148.6
30 – 34	51	745	68.5
35 – 39	12	690	17.4
40 – 44	2	581	3.4
TOTAL	204	3,552	374.2

For the Local Health Area:

1) the age specific fertility rate (ASFR) for age group 15–19 years is:

$$ASFR_i = \frac{b_i}{w_i} \times 1{,}000 = \frac{19}{598} \times 1{,}000 = 31.8$$

Where: b_i =number of live births for age group i; and
w_i =number of female population for age group i.

2) the total fertility rate (TFR) is:

$$TFR = a \times \sum ASFR_i = 5 \times (31.8 + \ldots + 3.4) = 1{,}871$$

Where: $ASFR_i$ = age specific fertility rate for age group i; and
a =number of years in each age group i.

- Potential Years of Life Lost (PYLL) and Standardized Rate (PYLLSR)

The Potential Years of Life Lost (PYLL) measures presented in this report are based on the number of years of life lost when a person dies before the age of 75 years. Infant deaths (age less than one year old) are included.

Age Group (i)	Age Factor ($75-Y_i$)	Standard Population (π_i)	LHA Estimated Population (p_i)	LHA Death Rate/1,000 (m_i)	LHA Observed Deaths (d_i)	LHA Observed PYLL ($d_i(75-Y_i)$)
< 1	74.5	403,061	1,339	2.2	3	223.5
1 – 4	72.0	1,550,285	5,483	0.2	1	72.0
5 – 9	67.5	1,953,045	6,553	0.2	1	67.5
.	.	.	.	.	.	.
.	.	.	.	.	.	.
.	.	.	.	.	.	.
65 – 69	7.5	1,084,588	3,538	18.7	66	495.0
70 – 74	2.5	834,024	2,779	28.8	80	200.0
TOTAL		28,120,065	79,140		239	3,183.0

For the Local Health Area:

$$PYLL = \sum d_i \times (75 - Y_i)$$

Where: d_i =number of deaths in age group i;
Y_i =age at midpoint of age group i; and
$\sum$ =summation.

$$PYLLSR = \frac{\sum m_i \times \pi_i \times (75 - Y_i)}{\prod} = \frac{2.2 \times 403{,}061 \times 74.5 + \ldots + 28.8 \times 834{,}024 \times 2.5}{28{,}120{,}065} = 37.0$$

Where: p_i =LHA population in age group i;
π_i =standard population in age group i;
$\prod = \sum \pi_i$ = total standard population;
d_i =deaths in LHA population in age group i;
Y_i =age at midpoint of age group i; and
m_i $=(d_i/p_i) \times 1{,}000$ = mortality rate per 1,000 LHA population in age group i.

RATIOS

- Observed versus Expected Ratios

The following are hypothetical examples that apply to the vital event ratios shown in this report. The first example shows low birth weight (LBW) live births (less than 2,500 grams), but other live birth ratios, such as cesarean deliveries or live births with maternal or perinatal complications, as well as infant deaths ratios can be substituted. Tables 12, 16, 18, 20, and 26 and Figures 30, 32, 33, 34, and 36 present these ratios. Ratios for live births to teenage mothers, elderly gravida live births, pre-term live births, or live births by cesarean, although not shown in this report, would also be calculated the same way as the low birth weight ratios. These ratios based on live births should not be confused with observed versus expected ratios that involve age and gender standardization, such as Standardized Mortality Ratio (SMR) and Potential Years of Life Lost Index (PYLLI). The test of statistical significance is described under Ratios in Statistical Tests of Significance at the end of this Appendix.

- Low Birth Weight Live Births

Year (i)	LHA: Low Birth Weight Live Births Observed (O_i)	LHA: Low Birth Weight Live Births Expected (E_i)	LHA: Total Live Births (L_i)	British Columbia: Low Birth Weight Live Births Observed (b_i)	British Columbia: Total Live Births (B_i)
1995	92	82.9	1,701	2,096	42,989
1996	69	74.6	1,588	1,965	41,846
1997	102	80.2	1,582	2,113	41,655
1998	85	74.7	1,495	2,145	42,913
1999	91	78.1	1,501	2,267	43,586
TOTAL	439	390.6	7,867	10,586	212,989

For the Local Health Area:

1) the expected low birth weight live births for year i = 1995 were:

$$E_i = \frac{b_i}{B_i} \times L_i = \frac{2,096}{42,989} \times 1,701 = 82.9$$

Where: b_i =number of LBW live births for the province in year i;
B_i =number of live births for the province in year i; and
L_i =number of live births for the LHA.

2) the ratio of observed over the expected LBW live births for the five-year period was:

$$\text{Ratio} = \frac{\Sigma O_i}{\Sigma E_i} = \frac{92 + \ldots + 91}{82.9 + \ldots + 78.1} = \frac{439}{390.6} = 1.1$$

Where: O_i =observed LBW live births for year i; and
E_i =expected LBW live births for year i.

- Potential Years of Life Lost Index (PYLLI)
  Note that this method is both age and gender standardized.

Age Group (i)	Gender (j)	Age Factor ($75-Y_{ij}$)	LHA: Estimated Population (p_{ij})	LHA: Death Rate/1,000 (m_{ij})	LHA: Observed Deaths (d_{ij})	LHA: Observed PYLL ($d_{ij}(75-Y_{ij})$)	LHA: Expected PYLL ($e_{ij}(75-Y_{ij})$)	British Columbia: Estimated Population (P_{ij})	British Columbia: Death Rate/1,000 ($D_{ij}/P_{ij}\times1,000$)	British Columbia: Observed Deaths (D_{ij})	British Columbia: Observed PYLL ($D_{ij}(75-Y_{ij})$)
<1	M	74.5	1,339	2.2	3	223.5	766.3	42,700	7.7	328	24,436.0
<1	F	74.5	1,301	1.8	2	177.3	620.8	40,600	6.4	260	19,380.3
.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.	.
70–74	M	2.5	1,587	71.3	113	282.8	233.2	65,500	58.8	3,969	9,921.4
70–74	F	2.5	2,779	28.8	80	200.0	182.3	107,000	26.2	2,807	7,017.5
TOTAL			79,140		239	3,183.0	5,100.0	2,966,500		11,068	200,265.5

For the Local Health Area:

$$PYLLI = \frac{O}{E} = \frac{\sum d_{ij} \times (75 - Y_{ij})}{\sum e_{ij} \times (75 - Y_{ij})} = \frac{223.5 + 177.3 + \ldots + 282.8 + 200.0}{766.3 + 620.8 + \ldots + 233.2 + 182.3} = \frac{3,183}{5,100} = 0.6$$

Where: O = observed PYLL;
E = expected PYLL;
d_{ij} = observed deaths in age group i and gender j;
e_{ij} = expected deaths in age group i and gender j;
Y_{ij} = age at midpoint of age group i and gender j;
p_{ij} = LHA population for age group i and gender j;
P_{ij} = provincial population for age group i and gender j;
D_{ij} = provincial deaths for age group i and gender j.

1) Observed PYLL (O)

The number of potential years of life lost (PYLL) based on the number and age at death of deaths that occurred in the LHA. For example, for age group under one year of age and gender j, the observed PYLL are:

Observed PYLL = deaths x age factor = d_{ij} $(75\text{-}Y_{ij})$ = 3 x 74.5 = 223.5

2) Expected PYLL (E)

The number of potential years of life lost (PYLL) expected for residents of the LHA based on the PYLL from the expected deaths in the age group. For example, for age group under one year of age and gender j, the expected PYLL are:

Expected PYLL = expected deaths x age factor = e_{ij} $(75 - Y_{ij}) = \frac{D_{ij}}{P_{ij}} \times p_{ij} \times (75 - Y_{ij})$

$$= \frac{328}{42,700} \times 1,339 \times 74.5 = 766.3$$

- Standardized Mortality Ratio (SMR)

Note that this method is both age and gender standardized.

Age Group (i)	Gender (j)	LHA Estimated Population (p_{ij})	LHA Death Rate/1,000 (m_{ij})	LHA Observed Deaths (d_{ij})	LHA Expected Deaths (e_{ij})	British Columbia Estimated Population (P_{ij})	British Columbia Death Rate/1,000 (M_{ij})	British Columbia Observed Deaths (D_{ij})
< 1	M	1,339	2.2	3	10.3	42,700	7.7	328
< 1	F	1,301	1.8	2	8.3	40,600	6.4	260
.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.
85 +	M	1,198	70.1	84	87.2	48,100	72.8	3,502
85 +	F	908	159.7	145	138.8	34,500	152.8	5,272
TOTAL		81,016		561	595.1	3,131,700		23,389

For the Local Health Area:

$$SMR = \frac{\sum d_{ij}}{\sum e_{ij}} = \frac{3 + 2 + \ldots + 110 + 145}{10.3 + 8.3 + \ldots + 92.6 + 138.8} = \frac{561}{595.1} = 0.9$$

Where: d_{ij} = observed deaths in age group i and gender j; and
e_{ij} = expected deaths in age group i and gender j.

1) Observed Deaths (d)
The actual number of deaths that occurred in the LHA. For example, for age group under one year of age and gender j, the observed deaths are three.

2) Expected Deaths (e)
The number of deaths expected for residents of the LHA based on the age specific mortality rates for the province as a whole and the population age structure of the LHA. For age group under one year and gender j, the expected deaths are:

$$e_{ij} = \frac{D_{ij}}{P_{ij}} \times p_{ij} = \frac{328}{42{,}700} \times 1{,}339 = 10.3$$

Where: p_{ij} = LHA population for age group i and gender j;
D_{ij} = provincial deaths for age group i and gender j; and
P_{ij} = provincial population for age group i and gender j.

- Estimation of Smoking Attributable Mortality (SAM)

This report uses an estimation method to approximate the extent of smoking-attributable deaths based on the concept of attributable risk. To define attributable risk mathematically, consider d_0 and d_1 respectively to represent the death rates, in a given time period, in two cohorts from a population — those not exposed and those exposed to a given risk factor. The attributable risk of this factor, AR_1, would then be:

$$AR_1 = \frac{d_1 - d_0}{d_1} = \frac{r_1 - 1}{r_1}$$

Where: $r_1 = d_1/d_0$ is the relative risk of the exposed cohort.

The relative risk of the unexposed cohort is $r_0 = 1$; the attributable risk of this cohort is $AR_0 = 0$.

The attributable risk (AR) for the population as a whole (exposed plus unexposed cohorts) is given by:

$$AR = \frac{p_1 (r_1 - 1)}{p_1 (r_1) + (1 - p_1)(r_0)} = \frac{(p_1)(r_1 - 1)}{(p_1)(r_1 - 1) + 1}$$

Where: p_1 = the proportion or fraction of the population exposed to the risk factor; and
$1-p_1$ = the proportion or fraction of the population not exposed to the risk factor.

This may be extended to account for multiple levels of exposure, as follows:

$$AR = \frac{\sum_{i=1}^{n} p_i (r_i - 1)}{\sum_{i=1}^{n} p_i (r_i - 1) + 1}$$

Where: p_i = the proportion (prevelance) of the population in the ith level of exposure group;
r_i = the relative risk at the ith level of exposure; and
i = the ith risk category.

When applied to smoking-attributable mortality (SAM), the attributable risk is often expressed as a percentage:
SAM (%) = AR x 100

Smoking-attributable deaths are derived by multiplying the smoking-attributable mortality percentage expressed as a decimal fraction by the number of deaths aged 35+ in each of 19 specified cause of death categories. These categories are comprised of selected malignant neoplasms, circulatory system diseases, and respiratory system diseases, and are listed in the Glossary.

Relative-risk data from the American Society's Cancer Prevention Study (CPS-II) 1982–1988[1] were selected for use, as they have been widely used for similar analyses. The data from CPS–II established the age groups and the classification of smokers (current, former, and never) for which smoking prevalence data were required. The relative risk age categories were for 35+, or 35-64 and 65+. B.C. prevalence rates for smoking were provided in the **Tobacco Use in B.C. (1997)** survey commissioned by the B.C. and Yukon Health and Stroke Foundation.[2]

STATISTICAL TESTS OF SIGNIFICANCE

- Chi Square

For ratios, such as SMRs, a Chi-square (χ^2) test is applied to determine whether the observed number of cases is statistically significantly different from the expected number. For LHA *l*:

$$\chi_l^2 = \frac{(O_l - E_l)^2}{E_l}$$

(with one degree of freedom).

Where: O_l = Observed number for LHA *l*; and
E_l = Expected number for LHA *l*.

If $\chi_l^2 > 3.84$, the ratio is statistically significant at 5% significance level.

For SMR values, the Chi-square statistic that is applied is:

$$X_l^2 = 9\hat{O}_l\left(1 - \frac{1}{9\hat{O}_l} - \left(\frac{E_l}{\hat{O}_l}\right)^{1/3}\right)^2$$

Where: $\hat{O}_l = O_l$ *if* $O_l > E_l$; *otherwise*
$\hat{O}_l = O_l + 1$.

- Confidence Intervals

For rates, such as ASMRs, the test employed to determine statistical significance is a confidence interval. The 95% confidence interval for the difference (D) between a LHA and a provincial rate is defined by the upper and lower limits of the interval as follows:

$$\textit{Lower Limit} = D - 1.96\sqrt{\frac{R_l^2}{O_l} + \frac{R_p^2}{O_p}}$$

$$\textit{Upper Limit} = D + 1.96\sqrt{\frac{R_l^2}{O_l} + \frac{R_p^2}{O_p}}$$

[1]Centres for Disease Control. (1990). Smoking and health: A national status report. (DHSS publication no. (CDC) 87-8396). 2nd Edition. Rockville, MD: U.S. Department of Health and Human Services.
[2]Tobacco Use in B.C., ANGUS REID GROUP survey results, September 1997.

Where: R_l =Rate for LHA *l*;
R_p =Rate for the province;
O_l =Observed number for LHA *l*; and
O_p =Observed number for the province.

If the Lower Limit > 0, then R_l is statistically significantly higher than R_p;
if the Upper Limit < 0, then R_l is statistically significantly lower than R_p; otherwise,
there is no statistically significant difference.

- P Value

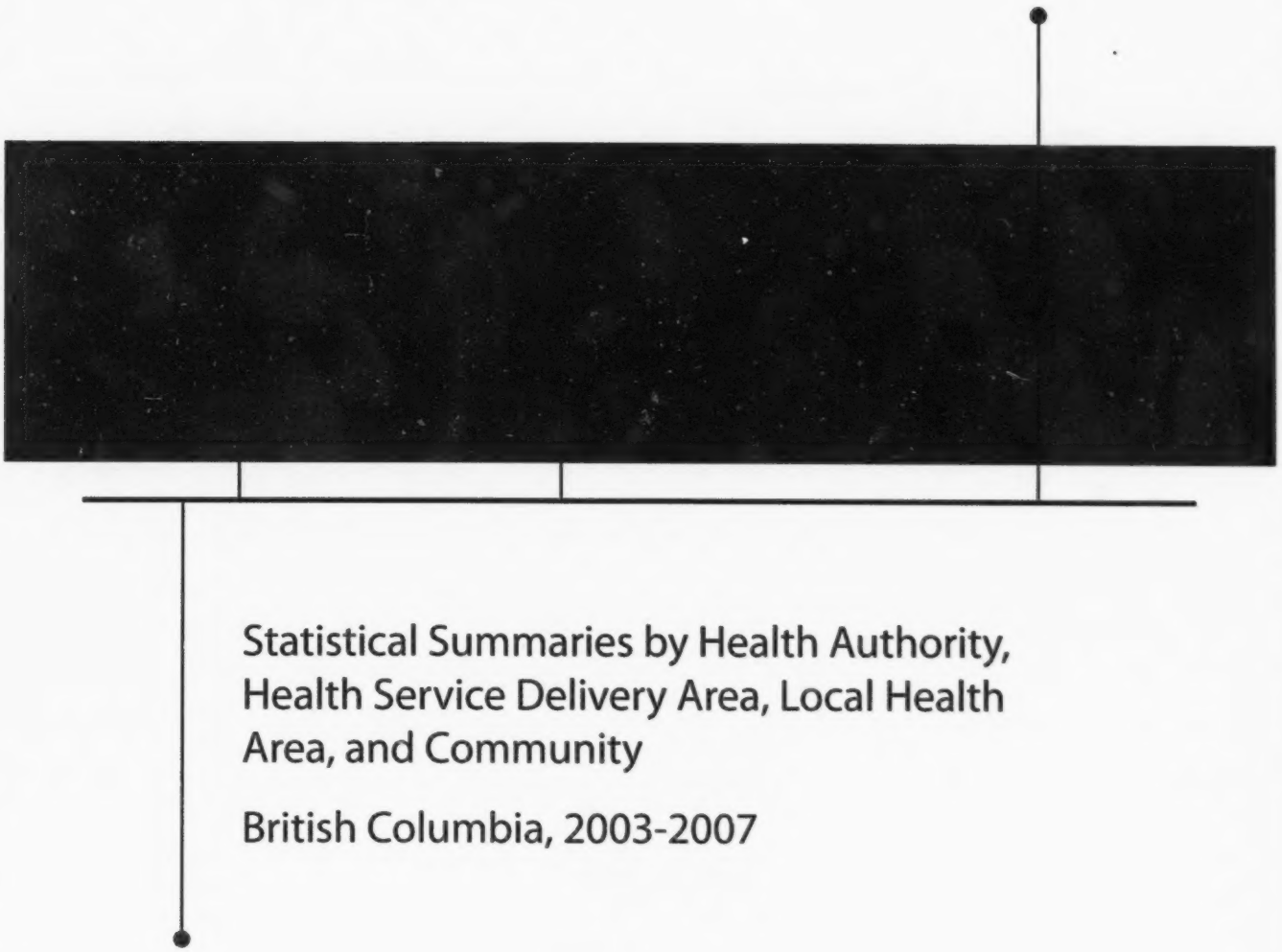
The p-value is the probability of rejecting the null hypothesis when a specified test procedure is used on a given data set. This probability is the smallest level of significance at which the null hypothesis would be rejected. Once the p-value has been determined, the conclusion at any particular level α results from comparing the p-value to α (e.g., 0.05):

(a) p-value $\leq \alpha \rightarrow$ reject null hypothesis at level α,

(b) p-value $> \alpha \rightarrow$ do not reject the null hypothesis at level α,

and we call the data statistically significant when the null hypothesis is rejected and not significant otherwise.

Appendix One



Statistical Summaries by Health Authority, Health Service Delivery Area, Local Health Area, and Community

British Columbia, 2003-2007

Preamble to Appendix 1

BC is a large, geographically diverse province. The majority of the population is concentrated in the south-western corner of the province, with the majority of the remaining population concentrated in the major cities of Kelowna, Kamloops, Prince George, and Nanaimo, or along the border with the United States. Large areas of the province are sparsely populated. Health care services tend to be concentrated in the areas of greater population, especially in the metropolitan areas of Vancouver and Victoria.

Appendix 1 provides summary details of the 2007 vital statistics for HAs, HSDAs, LHAs, and incorporated communities. The LHAs are the lowest level of data aggregation; they are the building blocks upon which the HSDA and HA information is aggregated. Information presented in this appendix includes the number of live births, stillbirths, and deaths by gender, and the number of marriages. Live births and stillbirths are assigned to geographic areas based on usual residence of the mother. Deaths are assigned to geographic areas based on the usual residence of the decedent. Marriages are assigned to geographic areas based on the place where the marriage ceremony was performed, and includes non-residents.

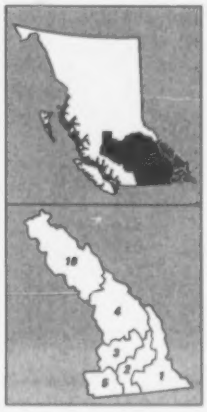
Population estimates, average age, and life expectancy at birth were obtained from BC STATS, Ministry of Labour and Citizen's Services.

APPENDIX 1

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2007

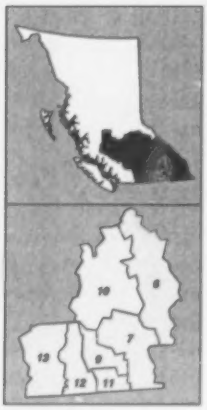
Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2003-2007)
HSDA 11 EAST KOOTENAY									
LHA001 Fernie		**M**	**7,741**	**80**	**46**		**2**	**38.9**	**79.6**
		F	**7,042**	**72**	**34**		**-**	**39.2**	**83.8**
		T	**14,783**	**152**	**80**	**135**	**2**	**39.1**	**81.4**
Elkford	DM	M		16	2		-		
		F		8	4		-		
		T	2,587	24	6	12	-		
Fernie	C	M		29	26		1		
		F		32	15		-		
		T	4,453	61	41	82	1		
Sparwood	DM	M		23	13		1		
		F		15	8		-		
		T	3,863	38	21	19	1		
LHA 002 Cranbrook		**M**	**12,770**	**133**	**108**		**1**	**40.0**	**77.9**
		F	**12,887**	**120**	**111**		**-**	**41.4**	**82.3**
		T	**25,657**	**253**	**219**	**159**	**2**	**40.7**	**80.1**
Cranbrook	C	M		107	95		1		
		F		101	96		-		
		T	19,409	208	191	89	2		
LHA 003 Kimberley		**M**	**4,196**	**47**	**32**		**-**	**43.9**	**79.9**
		F	**4,241**	**27**	**29**		**-**	**44.9**	**82.0***
		T	**8,437**	**74**	**61**	**65**	**-**	**44.4**	**81.0**
Kimberley	C	M		44	27		-		
		F		24	27		-		
		T	6,639	68	54	52	-		
LHA 004 Windermere		**M**	**5,081**	**43**	**30**		**-**	**40.8**	**81.2***
		F	**4,911**	**45**	**18**		**-**	**41.1**	**86.1***
		T	**9,992**	**88**	**48**	**130**	**-**	**40.9**	**83.7**
Canal Flats	VL	M		4	4		-		
		F		6	1		-		
		T	795	10	5	2	-		
Invermere	DM	M		20	15		-		
		F		19	14		-		
		T	3,321	39	29	34	-		
Radium Hot Springs	VL	M		6	2		-		
		F		1	1		-		
		T	805	7	3	26	-		
LHA 005 Creston		**M**	**6,343**	**51**	**76**		**-**	**45.0**	**78.8**
		F	**6,443**	**63**	**69**		**-**	**45.8**	**84.6***
		T	**12,786**	**114**	**145**	**62**	**-**	**45.4**	**81.5**
Creston	T	M		19	42		-		
		F		33	52		-		
		T	5,309	52	94	45	-		
LHA 018 Golden		**M**	**3,844**	**41**	**20**		**-**	**37.9**	**78.4**
		F	**3,515**	**27**	**24**		**-**	**37.8**	**81.7***
		T	**7,359**	**68**	**44**	**131**	**-**	**37.8**	**79.9**
Golden	T	M		37	20		-		
		F		25	22		-		
		T	4,043	62	42	67	-		
TOTAL		**M**	**39,975**	**395**	**312**		**3**	**40.9**	**79.0**
		F	**39,039**	**354**	**285**		**-**	**41.8**	**83.3**
		T	**79,014**	**749**	**597**	**682**	**4**	**41.3**	**81.1**



APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2007



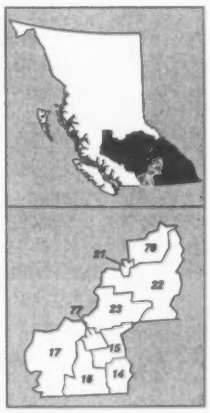
Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2003-2007)
HSDA 12 KOOTENAY BOUNDARY									
LHA 006 Kootenay Lake		M	2,012	17	21		-	43.3	77.8
		F	1,924	19	20		-	45.0	86.7^
		T	3,936	36	41	23	-	44.1	82.0
Kaslo	VL	M		10	13		-		
		F		9	15		-		
		T	1,223	19	28	16	-		
LHA 007 Nelson		M	12,524	130	109		1	39.9	78.2
		F	12,532	103	98		-	41.5	82.7
		T	25,056	233	207	157	1	40.7	80.4
Nelson	C	M		51	50		-		
		F		50	60		-		
		T	9,914	101	110	81	-		
Salmo	VL	M		15	11		-		
		F		10	15		-		
		T	1,086	25	26	10	-		
Slocan	VL	M		3	3		-		
		F		2	1		-		
		T	364	5	4	10	-		
LHA 009 Castlegar		M	6,718	56	65		1	41.1	76.5
		F	6,611	55	55		-	42.7	81.4
		T	13,329	111	120	53	1	41.9	78.9
Castlegar	C	M		33	44		1		
		F		35	42		-		
		T	7,794	68	86	32	1		
LHA 010 Arrow Lakes		M	2,473	21	24		-	45.2	76.1
		F	2,382	20	26		-	46.1	82.6^
		T	4,855	41	50	47	-	45.7	79.2
Nakusp	VL	M		8	15		-		
		F		12	15		-		
		T	1,598	20	30	30	-		
New Denver	VL	M		3	5		-		
		F		5	7		-		
		T	529	8	12	5	-		
Silverton	VL	M		3			-		
		F		1	1		-		
		T	203	4	1	4	-		
LHA 011 Trail		M	9,784	79	118		-	41.9	75.7
		F	10,137	68	123		-	44.4	80.3
		T	19,921	147	241	92	-	43.2	78.0
Fruitvale	VL	M		15	18		-		
		F		10	13		-		
		T	2,100	25	31	13	-		
Montrose	VL	M		5	6		-		
		F		5	1		-		
		T	1,070	10	7	11	-		
Rossland	C	M		22	10		-		
		F		16	16		-		
		T	3,508	38	26	13	-		
Trail	C	M		24	67		-		
		F		17	82		-		
		T	7,769	41	149	37	-		
Warfield	VL	M		6	7		-		
		F		14	9		-		
		T	1,876	20	16	5	-		

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2007

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2003-2007)
LHA 012 Grand Forks		M	4,709	43	72		-	44.9	78.8
		F	4,560	20	48		1	46.7	81.0*
		T	9,269	63	120	47	1	45.8	79.7
Grand Forks	C	M		39	63		-		
		F		18	41		1		
		T	4,325	57	104	28	1		
LHA 013 Kettle Valley		M	1,985	13	16		-	45.3	82.2*
		F	1,750	8	6		-	45.3	87.6*
		T	3,735	21	22	10	-	45.3	84.7*
Greenwood	C	M		4	5		-		
		F		2	1		-		
		T	667	6	6	3	-		
Midway	VL	M		5	3		-		
		F		1	3		-		
		T	676	6	6	1	-		
TOTAL		M	40,205	359	425		2	41.9	77.4
		F	39,896	293	376		1	43.6	82.0
		T	80,101	652	801	429	3	42.8	79.7
HSDA 13 OKANAGAN									
LHA 014 Southern Okanagan		M	9,777	66	152		1	47.9	77.2
		F	10,185	65	99		-	49.2	82.7
		T	19,962	131	251	118	1	48.6	79.9
Oliver	T	M		37	85		-		
		F		37	63		-		
		T	4,722	74	148	50	-		
Osoyoos	T	M		14	41		1		
		F		6	19		-		
		T	5,115	20	60	24	1		
LHA 015 Penticton		M	20,350	171	236		5	44.3	76.9
		F	22,125	148	238		-	46.4	82.8
		T	42,475	319	474	296	6	45.4	79.9
Penticton	C	M		152	212		2		
		F		118	218		-		
		T	34,002	270	430	222	3		
LHA 016 Keremeos		M	2,661	19	41		-	48.1	73.0
		F	2,590	21	23		-	46.9	81.9*
		T	5,251	40	64	22	-	47.5	77.0
Keremeos	VL	M		10	29		-		
		F		14	18		-		
		T	1,386	24	47	10	-		
LHA 017 Princeton		M	2,617	11	32		-	48.5	77.3
		F	2,557	15	31		-	47.2	81.0*
		T	5,174	26	63	48	-	47.9	79.1
Princeton	T	M		11	28		-		
		F		15	27		-		
		T	2,822	26	55	38	-		
LHA 021 Armstrong - Spallumcheen		M	4,778	47	37		-	41.5	78.8*
		F	5,033	42	40		-	42.9	83.8*
		T	9,811	89	77	46	-	42.2	81.3
Armstrong	C	M		31	24		-		
		F		27	31		-		
		T	4,524	58	55	30	-		
Spallumcheen	DM	M		16	13		-		
		F		15	9		-		
		T	5,209	31	22	16	-		



APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2007

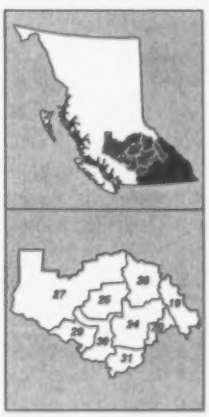
Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2003-2007)
LHA 022 Vernon		M	31,910	281	323		2	41.3	77.2
		F	33,432	267	321		3	43.1	82.3
		T	65,342	548	644	364	5	42.2	79.7
Coldstream	DM	M		28	29		-		
		F		34	27		-		
		T	10,218	62	56	68	-		
Lumby	VL	M		32	16		-		
		F		28	21		1		
		T	1,770	60	37	30	1		
Vernon	C	M		190	250		2		
		F		167	247		2		
		T	38,518	357	497	206	4		
LHA 023 Central Okanagan		M	86,501	825	755		6	40.8	78.9
		F	90,736	807	727		9	42.7	83.6
		T	177,237	1,632	1,482	1,033	15	41.8	81.3
Kelowna	C	M		575	531		3		
		F		555	550		6		
		T	116,479	1,130	1,081	750	9		
Lake Country	DM	M		46	40		-		
		F		48	25		1		
		T	10,615	94	65	91	1		
Peachland	DM	M		21	16		-		
		F		14	10		-		
		T	5,290	35	26	30	-		
LHA 077 Summerland		M	5,785	41	67		-	45.6	80.0
		F	6,228	30	72		1	47.1	84.5*
		T	12,013	71	139	69	1	46.3	82.2
Summerland	DM	M		41	67		-		
		F		30	72		1		
		T	11,563	71	139	69	1		
LHA 078 Enderby		M	3,946	38	49		-	42.2	75.8
		F	3,991	39	36		2	42.2	82.4*
		T	7,937	77	85	51	2	42.2	79.0
Enderby	C	M		34	42		-		
		F		29	33		2		
		T	3,046	63	75	41	2		
TOTAL		**M**	**168,325**	**1,499**	**1,692**		**14**	**42.2**	**78.1**
		F	**176,877**	**1,434**	**1,587**		**15**	**43.9**	**83.2**
		T	**345,202**	**2,933**	**3,279**	**2,047**	**30**	**43.0**	**80.6**
HSDA 14 THOMPSON CARIBOO SHUSWAP									
LHA 019 Revelstoke		M	4,226	41	32		-	38.7	78.1
		F	4,056	28	19		-	40.2	83.1*
		T	8,282	69	51	55	-	39.4	80.6
Revelstoke	C	M		41	32		-		
		F		28	19		-		
		T	7,627	69	51	54	-		
LHA 020 Salmon Arm		M	17,147	133	169		-	43.8	77.1
		F	17,512	117	155		1	45.2	82.2
		T	34,659	250	324	207	1	44.5	79.6
Salmon Arm	C	M		86	99		-		
		F		72	103		1		
		T	17,267	158	202	112	1		

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2007

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2003-2007)
Sicamous	DM	M		10	18		-		
		F		10	14		-		
		T	2,885	20	32	28	-		
LHA 024 Kamloops		M	54,313	528	442		-	40.0	77.1
		F	54,990	512	372		5	40.9	81.6
		T	109,303	1,040	814	665	5	40.5	79.3
Chase	VL	M		22	25		-		
		F		15	9		1		
		T	2,503	37	34	67	1		
Kamloops	C	M		440	348		-		
		F		435	317		3		
		T	85,746	875	665	464	3		
Logan Lake	DM	M		6	9		-		
		F		11	6		1		
		T	2,270	17	15	6	1		
LHA 025 100 Mile House		M	7,605	52	76		-	44.4	77.2
		F	7,259	54	60		-	44.2	82.3
		T	14,864	106	136	104	-	44.3	79.6
100 Mile House	DM	M		28	31		-		
		F		32	33		-		
		T	1,981	60	64	46	-		
LHA 026 North Thompson		M	2,323	22	24		-	41.6	73.7
		F	2,127	33	18		-	40.8	80.9*
		T	4,450	55	42	22	-	41.2	77.1
LHA 027 Cariboo - Chilcotin		M	13,734	150	108		3	38.3	75.8
		F	13,154	159	84		1	38.5	80.9
		T	26,888	309	192	97	4	38.4	78.2
Williams Lake	C	M		76	44		1		
		F		75	39		-		
		T	11,394	151	83	46	1		
LHA 029 Lillooet		M	2,296	20	14		1	39.3	74.8
		F	2,214	26	18		-	39.6	78.7*
		T	4,510	46	32	16	1	39.4	76.6
Lillooet	DM	M		17	13		1		
		F		22	18		-		
		T	2,409	39	31	14	1		
LHA 030 South Cariboo		M	3,863	31	38		-	43.5	74.9
		F	3,649	31	32		-	42.8	80.2
		T	7,512	62	70	29	-	43.2	77.3
Ashcroft	VL	M		14	16		-		
		F		3	13		-		
		T	1,809	17	29	15	-		
Cache Creek	VL	M		5	9		-		
		F		10	11		-		
		T	1,104	15	20	7	-		
Clinton	VL	M		4	5		-		
		F		3	3		-		
		T	604	7	8	6	-		
Lytton	VL	M		7	6		-		
		F		15	4		-		
		T	247	22	10	1	-		

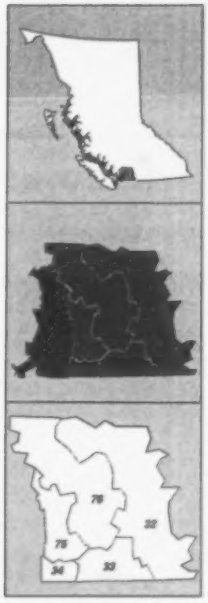


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2007

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2003-2007)
LHA 031 Merritt		M	5,859	62	62		2	39.9	75.3
		F	5,797	59	53		-	40.2	78.4
		T	11,656	121	115	58	2	40.0	76.8
Merritt	C	M		51	52		2		
		F		46	47		-		
		T	7,457	97	99	47	2		
TOTAL		M	111,366	1,039	965		6	40.8	76.8
		F	110,758	1,019	811		7	41.5	81.6
		T	222,124	2,058	1,776	1,253	13	41.1	79.1
HA 01 INTERIOR TOTAL		M	359,871	3,292	3,394		25	41.6	77.7
		F	366,570	3,100	3,059		23	42.9	82.6
		T	726,441	6,392	6,453	4,411	50	42.2	80.1
HSDA 21 FRASER EAST									
LHA 032 Hope		M	4,277	30	62		-	43.2	74.6
		F	4,043	38	48		1	43.5	77.5
		T	8,320	68	110	42	1	43.4	75.9
Hope	DM	M		28	55		-		
		F		36	45		1		
		T	6,432	64	100	37	1		
LHA 033 Chilliwack		M	40,969	515	346		4	38.1	77.5
		F	42,322	503	347		9	39.9	82.1
		T	83,291	1,018	693	450	13	39.0	79.8
Chilliwack	C	M		469	305		4		
		F		469	322		7		
		T	74,819	938	627	351	11		
LHA 034 Abbotsford		M	66,151	907	462		11	36.4	78.6
		F	66,478	823	435		5	38.5	83.4
		T	132,629	1,730	897	530	16	37.4	81.0
Abbotsford	C	M		905	461		11		
		F		821	434		5		
		T	131,827	1,726	895	529	16		
LHA 075 Mission		M	21,357	242	149		2	36.6	76.5
		F	20,387	219	137		2	37.8	81.2
		T	41,744	461	286	194	5	37.2	78.7
Mission	DM	M		215	132		2		
		F		198	123		2		
		T	36,719	413	255	167	5		
LHA 076 Agassiz - Harrison		M	4,654	46	41		-	40.5	79.2
		F	3,876	54	26		-	41.7	82.8
		T	8,530	100	67	137	-	41.1	80.8
Harrison Hot Springs	VL	M		6	4		-		
		F		3	2		-		
		T	1,645	9	6	85	-		
Kent	DM	M		40	37		-		
		F		51	24		-		
		T	5,062	91	61	52	-		
TOTAL		M	137,408	1,740	1,060		17	37.3	77.8
		F	137,106	1,637	993		17	39.1	82.4
		T	274,514	3,377	2,053	1,383	35	38.2	80.1

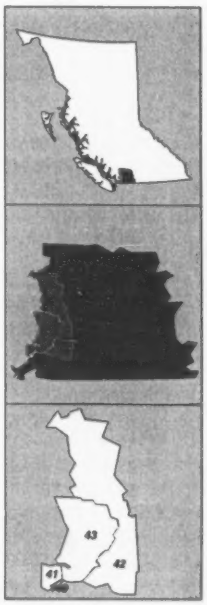


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2007

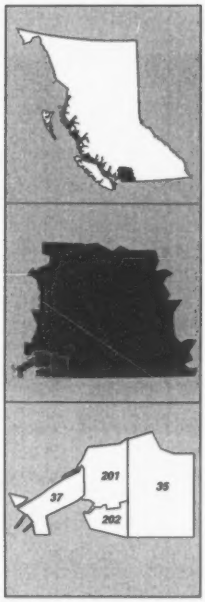
Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2003-2007)
HSDA 22 FRASER NORTH									
LHA 040 New Westminster		**M**	**30,965**	**358**	**252**		**3**	**39.2**	**77.4**
		F	**31,642**	**337**	**252**		**2**	**41.3**	**82.1**
		T	**62,607**	**695**	**504**	**285**	**6**	**40.2**	**79.8**
New Westminster	C	M		358	252		3		
		F		337	252		2		
		T	62,607	695	504	285	6		
LHA 041 Burnaby		**M**	**106,811**	**1,216**	**708**		**6**	**38.4**	**80.0**
		F	**109,525**	**1,107**	**665**		**4**	**40.3**	**84.1**
		T	**216,336**	**2,323**	**1,373**	**843**	**10**	**39.4**	**82.1**
Burnaby	C	M		1,216	708		6		
		F		1,107	665		4		
		T	216,336	2,323	1,373	843	10		
LHA 042 Maple Ridge		**M**	**45,206**	**492**	**284**		**4**	**36.7**	**77.7**
		F	**45,206**	**447**	**243**		**4**	**38.3**	**82.0**
		T	**90,412**	**939**	**527**	**423**	**8**	**37.5**	**79.9**
Maple Ridge	DM	M		401	255		2		
		F		369	218		4		
		T	73,248	770	473	278	6		
Pitt Meadows	C	M		87	28		2		
		F		75	23		-		
		T	16,757	162	51	145	2		
LHA 043 Coquitlam		**M**	**104,552**	**1,082**	**449**		**5**	**36.7**	**80.4**
		F	**104,826**	**1,060**	**474**		**7**	**38.2**	**83.3**
		T	**209,378**	**2,142**	**923**	**567**	**13**	**37.4**	**81.9**
Anmore	VL	M		3	1		-		
		F		5	2		-		
		T	1,992	8	3	5	-		
Belcarra	VL	M		5			-		
		F					-		
		T	701	5		1	-		
Coquitlam	C	M		526	279		1		
		F		565	299		5		
		T	120,512	1,091	578	356	7		
Port Coquitlam	C	M		324	111		2		
		F		277	123		-		
		T	55,735	601	234	95	2		
Port Moody	C	M		223	58		2		
		F		212	50		2		
		T	30,004	435	108	110	4		
TOTAL		**M**	**287,534**	**3,148**	**1,693**		**18**	**37.6**	**79.4**
		F	**291,199**	**2,951**	**1,634**		**17**	**39.3**	**83.3**
		T	**578,733**	**6,099**	**3,327**	**2,118**	**37**	**38.5**	**81.4**



APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2007



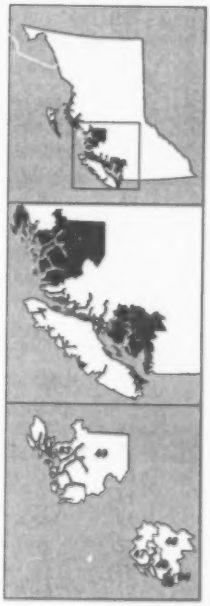
Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2003-2007)
HSDA 23 FRASER SOUTH									
LHA 035 Langley		M	61,984	668	440		5	37.6	78.8
		F	63,045	664	458		5	39.4	83.2
		T	125,029	1,332	898	715	10	38.5	81.1
Langley (City)	C	M		132	103		1		
		F		134	153		3		
		T	25,134	266	256	226	4		
Langley (Dm)	DM	M		535	330		4		
		F		529	302		2		
		T	100,049	1,064	632	489	6		
LHA 037 Delta		M	50,767	450	317		2	38.6	80.2
		F	51,335	410	296		6	40.0	83.5
		T	102,102	860	613	265	8	39.3	81.9
Delta	DM	M		445	315		2		
		F		409	295		6		
		T	101,668	854	610	264	8		
LHA 201 Surrey		M	182,308	2,498	887		20	35.2	78.6
		F	180,478	2,418	865		23	36.4	83.2
		T	362,786	4,916	1,752	1,097	43	35.8	81.0
Surrey	C	M		2,498	885		20		
		F		2,417	865		23		
		T	423,935	4,915	1,750	1,096	43		
LHA 202 South Surrey/ White Rock		M	39,559	286	412		-	43.3	80.1
		F	43,648	252	485		2	46.5	84.7
		T	83,207	538	897	416	2	44.9	82.6
White Rock	C	M		76	133		-		
		F		49	208		-		
		T	19,839	125	341	90	-		
TOTAL		**M**	**334,618**	**3,902**	**2,056**		**27**	**38.8**	**79.1**
		F	**338,506**	**3,744**	**2,104**		**36**	**38.0**	**83.5**
		T	**673,124**	**7,646**	**4,160**	**2,493**	**63**	**38.9**	**81.4**
HA 02 FRASER TOTAL		**M**	**759,560**	**8,790**	**4,809**		**62**	**37.3**	**79.0**
		F	**766,811**	**8,332**	**4,731**		**70**	**39.0**	**83.2**
		T	**1,526,371**	**17,122**	**9,540**	**5,964**	**135**	**38.2**	**81.2**
HSDA 31 RICHMOND									
LHA 038 Richmond		M	90,990	926	417		4	38.9	82.5
		F	95,638	821	492		6	40.8	85.9
		T	186,628	1,747	909	1,038	10	39.9	84.3
Richmond	C	M		926	417		4		
		F		821	492		6		
		T	186,628	1,747	909	1,038	10		
TOTAL		**M**	**90,990**	**926**	**417**		**4**	**38.9**	**82.5**
		F	**95,638**	**821**	**492**		**6**	**40.8**	**85.9**
		T	**186,628**	**1,747**	**909**	**1,038**	**10**	**39.9**	**84.3**

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2007

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2003-2007)
HSDA 32 VANCOUVER									
LHA 161 Vancouver - City Centre		M	56,606	505	325		4	39.2	77.6
		F	54,749	414	309		7	40.1	83.6
		T	111,355	919	634	1,275	11	39.7	80.6
LHA 162 Vancouver - Downtown Eastside		M	31,362	224	344		1	41.4	71.2
		F	26,340	229	165		1	41.2	82.3
		T	57,702	453	509	286	4	41.3	75.5
LHA 163 Vancouver - North East		M	51,491	582	306		8	38.4	81.1
		F	52,288	546	257		2	40.2	84.9
		T	103,779	1,128	563	359	10	39.3	83.0
LHA 164 Vancouver - Westside		M	63,090	615	370		4	38.2	81.9
		F	69,010	536	410		2	40.4	86.0
		T	132,100	1,151	780	1,223	7	39.4	84.1
LHA 165 Vancouver - Midtown		M	42,425	511	268		7	37.6	79.3
		F	43,478	527	219		6	39.2	84.0
		T	85,903	1,038	487	403	13	38.4	81.7
LHA 166 Vancouver - South		M	64,807	706	369		8	38.6	82.2
		F	69,020	614	462		9	41.0	85.0
		T	133,827	1,320	831	339	17	39.9	83.6
TOTAL		**M**	**309,781**	**3,145**	**1,986**		**32**	**38.7**	**79.3**
		F	**314,885**	**2,872**	**1,823**		**28**	**40.4**	**84.6**
		T	**624,666**	**6,017**	**3,809**	**4,138**	**63**	**39.6**	**82.0**
HSDA 33 NORTH SHORE/COAST GARIBALDI									
LHA 044 North Vancouver		M	66,470	624	421		7	38.7	80.7
		F	69,811	580	419		3	40.8	84.3
		T	136,281	1,204	840	468	11	39.8	82.6
North Vancouver	C	M		362	264		4		
		F		332	264		1		
		T	47,463	694	528	311	6		
North Vancouver	DM	M		249	154		2		
		F		233	151		2		
		T	86,954	482	305	152	4		
LHA 045 West Vancouver- Bowen Island		M	24,473	157	200		1	43.6	82.4
		F	27,201	144	257		1	46.0	85.5
		T	51,674	301	457	305	2	44.9	84.1
Bowen Island	IM	M		16	7		-		
		F		11	9		-		
		T	3,551	27	16	36	-		
Lions Bay	VL	M		15	1		-		
		F		4	1		-		
		T	1,394	19	2	3	-		
West Vancouver	DM	M		113	183		1		
		F		122	240		1		
		T	44,097	235	423	261	2		
LHA 046 Sunshine Coast		M	14,573	107	170		-	44.5	80.1
		F	15,291	91	137		-	45.5	83.0
		T	29,864	198	307	189	-	45.0	81.4
Gibsons	T	M		40	51		-		
		F		41	43		-		
		T	4,547	81	94	56	-		
Sechelt/ Sechelt Indian Govt. Dist.	DM/ IGD	M		37	71		-		
		F		25	64		-		
		T	9,986	62	135	48	-		

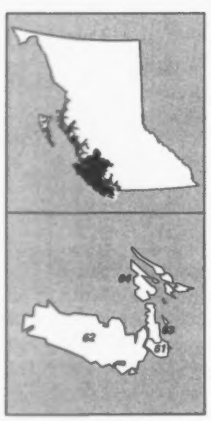


APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2007

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2003-2007)
LHA 047 Powell River		M	10,320	59	99		1	43.4	77.3
		F	10,060	61	93		-	45.2	83.2
		T	20,380	120	192	94	1	44.3	80.2
Powell River	C	M		43	75		1		
		F		40	75		-		
		T	13,818	83	150	48	1		
LHA 048 Howe Sound		M	17,492	249	69		4	34.9	78.1
		F	15,670	234	50		1	35.1	83.5
		T	33,162	483	119	418	5	35.0	80.6
Pemberton	VL	M		29	8		-		
		F		34	4		1		
		T	2,283	63	12	30	1		
Squamish	DM	M		145	49		4		
		F		125	38		-		
		T	16,106	270	87	63	4		
Whistler	DM	M		39	4		-		
		F		40	2		-		
		T	9,877	79	6	265	-		
LHA 049 Bella Coola Valley		M	1,590	18	13		1	37.2	72.8
		F	1,417	15	4		1	37.0	77.4
		T	3,007	33	17	11	2	37.1	75.1
LHA 083 Central Coast		M	793	13	7		-	35.4	70.7*
		F	712	12	4		-	34.9	68.0*
		T	1,505	25	11	10	-	35.1	70.5
TOTAL		**M**	**135,711**	**1,227**	**979**		**14**	**40.0**	**80.3**
		F	**140,162**	**1,137**	**964**		**6**	**41.9**	**84.0**
		T	**275,873**	**2,364**	**1,943**	**1,495**	**21**	**41.0**	**82.2**
HA 03 VANCOUVER COASTAL TOTAL		**M**	**536,482**	**5,298**	**3,382**		**50**	**39.1**	**80.1**
		F	**550,685**	**4,830**	**3,279**		**40**	**40.8**	**84.6**
		T	**1,087,167**	**10,128**	**6,661**	**6,671**	**94**	**40.0**	**82.4**
HSDA 41 SOUTH VANCOUVER ISLAND									
LHA 061 Greater Victoria		M	105,469	942	987		9	40.5	79.0
		F	116,737	892	1,167		9	43.5	83.5
		T	222,206	1,834	2,154	1,196	18	42.1	81.4
Esquimalt	DM	M		104	88		-		
		F		81	72		1		
		T	17,754	185	160	126	1		
Oak Bay	DM	M		50	93		1		
		F		42	116		1		
		T	18,795	92	209	89	2		
Victoria	C	M		317	460		5		
		F		315	626		3		
		T	82,653	632	1,086	730	8		
View Royal	T	M		47	24		-		
		F		59	30		-		
		T	9,200	106	54	21	-		



APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

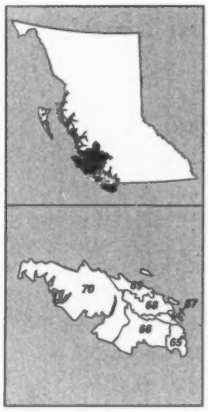
BRITISH COLUMBIA, 2007

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2003-2007)
LHA 062 Sooke		M	31,960	330	150		-	37.6	80.0
		F	31,704	305	156		1	38.6	82.3
		T	63,664	635	306	404	1	38.1	81.2
Colwood	C	M		86	38		-		
		F		91	54		-		
		T	15,764	177	92	131	-		
Highlands	DM	M		4	3		-		
		F		6	1		-		
		T	2,012	10	4	4	-		
Langford	C	M		148	58		-		
		F		121	58		1		
		T	24,817	269	116	69	1		
Metchosin	DM	M		17	13		-		
		F		23	9		-		
		T	5,158	40	22	45	-		
Sooke	DM	M		70	33		-		
		F		59	32		-		
		T	10,504	129	65	145	-		
LHA 063 Saanich		M	31,454	186	362		-	45.1	80.9
		F	33,469	186	303		-	47.1	85.1
		T	64,923	372	665	341	-	46.1	83.0
Central Saanich	DM	M		56	86		-		
		F		59	74		-		
		T	16,619	115	160	79	-		
North Saanich	DM	M		32	46		-		
		F		24	38		-		
		T	11,319	56	84	76	-		
Saanich	DM	M		56	130		-		
		F		65	82		-		
		T	114,130	121	212	127	-		
Sidney	T	M		25	86		-		
		F		27	102		-		
		T	12,017	52	188	53	-		
LHA 064 Gulf Islands		M	7,422	50	69		-	48.1	79.2
		F	8,050	42	76		1	49.3	86.5*
		T	15,472	92	145	227	1	48.7	82.9
TOTAL		**M**	**176,305**	**1,508**	**1,568**		**9**	**41.1**	**79.7**
		F	**189,960**	**1,425**	**1,702**		**11**	**43.6**	**83.8**
		T	**366,265**	**2,933**	**3,270**	**2,168**	**20**	**42.4**	**81.9**
HSDA 42 CENTRAL VANCOUVER ISLAND									
LHA 065 Cowichan		M	28,122	266	263		5	40.6	78.9
		F	28,882	291	208		1	41.8	81.7
		T	57,004	557	471	352	6	41.2	80.3
Duncan	C	M		30	59		-		
		F		33	48		1		
		T	5,167	63	107	29	1		
North Cowichan	DM	M		113	101		1		
		F		135	96		-		
		T	29,436	248	197	98	1		
LHA 066 Lake Cowichan		M	3,304	18	21		-	41.6	75.8
		F	3,148	25	15		-	42.0	83.7*
		T	6,452	43	36	27	-	41.8	79.6
Lake Cowichan	T	M		13	15		-		
		F		21	8		-		
		T	3,103	34	23	19	-		

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2007



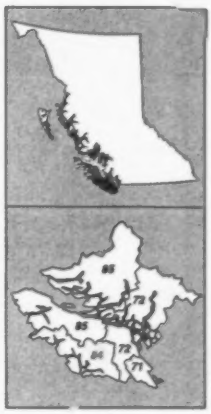
Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2003-2007)
LHA 067 Ladysmith		**M**	**9,175**	**80**	**120**		**1**	**43.6**	**76.4**
		F	**9,381**	**79**	**97**		**-**	**45.2**	**81.2**
		T	**18,556**	**159**	**217**	**96**	**1**	**44.4**	**78.7**
Ladysmith	T	M		35	52		-		
		F		31	42		-		
		T	8,144	66	94	23	-		
LHA 068 Nanaimo		**M**	**49,998**	**502**	**460**		**1**	**41.0**	**78.1**
		F	**52,272**	**419**	**465**		**2**	**42.7**	**82.2**
		T	**102,270**	**921**	**925**	**415**	**3**	**41.9**	**80.1**
Lantzville	DM	M		17	13		-		
		F		15	10		-		
		T	3,695	32	23	29	-		
Nanaimo	C	M		433	399		1		
		F		358	408		2		
		T	83,469	791	807	303	3		
LHA 069 Qualicum		**M**	**22,369**	**139**	**277**		**-**	**47.8**	**79.9**
		F	**23,439**	**114**	**226**		**-**	**49.5**	**83.9**
		T	**45,808**	**253**	**503**	**331**	**-**	**48.7**	**81.9**
Parksville	C	M		41	107		-		
		F		29	86		-		
		T	11,879	70	193	150	-		
Qualicum Beach	T	M		22	70		-		
		F		10	78		-		
		T	9,010	32	148	57	-		
LHA 070 Alberni		**M**	**16,443**	**171**	**171**		**4**	**40.6**	**75.6**
		F	**15,838**	**164**	**110**		**3**	**41.3**	**80.9**
		T	**32,281**	**335**	**281**	**520**	**8**	**41.0**	**78.1**
Port Alberni	C	M		93	111		2		
		F		93	89		2		
		T	18,527	186	200	74	4		
Tofino	DM	M		18	9		-		
		F		13	3		-		
		T	1,752	31	12	350	-		
Ucluelet	DM	M		21	10		-		
		F		16	3		-		
		T	1,567	37	13	45	1		
TOTAL		**M**	**129,411**	**1,176**	**1,312**		**11**	**42.3**	**78.1**
		F	**132,960**	**1,092**	**1,121**		**6**	**43.7**	**82.2**
		T	**262,371**	**2,268**	**2,433**	**1,741**	**18**	**43.0**	**80.2**
HSDA 43 NORTH VANCOUVER ISLAND									
LHA 071 Courtenay		**M**	**31,609**	**251**	**267**		**1**	**41.9**	**78.8**
		F	**32,456**	**257**	**243**		**3**	**43.3**	**83.6**
		T	**64,065**	**508**	**510**	**367**	**4**	**42.6**	**81.2**
Comox	T	M		39	75		-		
		F		42	63		1		
		T	13,139	81	138	89	1		
Courtenay	C	M		133	92		1		
		F		113	87		1		
		T	23,911	246	179	109	2		
Cumberland	VL	M		15	17		-		
		F		16	23		-		
		T	3,018	31	40	16	-		

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2007

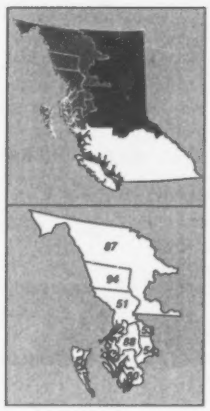
Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2003-2007)
LHA 072 Campbell River		**M**	**21,299**	**198**	**176**		**3**	**40.2**	**77.4**
		F	**20,748**	**198**	**138**		**1**	**40.7**	**81.8**
		T	**42,047**	**396**	**314**	**221**	**4**	**40.4**	**79.5**
Campbell River	C	M		159	134		3		
		F		158	118		1		
		T	31,553	317	252	149	4		
Sayward	VL	M			6		-		
		F		3	2		-		
		T	345	3	8	5	-		
LHA 084 Vancouver Island West		**M**	**1,294**	**9**	**2**		**-**	**38.2**	**72.9***
		F	**1,128**	**5**	**9**		**-**	**37.4**	**83.3***
		T	**2,422**	**14**	**11**	**8**	**-**	**37.8**	**90.9**
Gold River	VL	M		8	2		-		
		F		3	7		-		
		T	1,473	11	9	6	-		
Tahsis	VL	M		1			-		
		F		2	2		-		
		T	383	3	2	1	-		
LHA 085 Vancouver Island North		**M**	**6,538**	**86**	**64**		**-**	**37.9**	**76.0**
		F	**5,918**	**64**	**39**		**1**	**37.2**	**78.9**
		T	**12,456**	**150**	**103**	**55**	**1**	**37.5**	**77.3**
Alert Bay	VL	M		12	10		-		
		F		7	9		-		
		T	584	19	19	4	-		
Port Alice	VL	M		3	3		-		
		F		5			-		
		T	893	8	3	6	-		
Port Hardy	DM	M		37	23		-		
		F		26	13		1		
		T	4,011	63	36	21	1		
Port Mcneill	T	M		22	9		-		
		F		20	11		-		
		T	2,740	42	20	13	-		
Zeballos	VL	M		3	1		-		
		F		1	1		-		
		T	193	4	2	1	-		
TOTAL		**M**	**60,740**	**544**	**509**		**4**	**40.8**	**78.0**
		F	**60,250**	**524**	**429**		**5**	**41.7**	**82.4**
		T	**120,990**	**1,068**	**938**	**651**	**9**	**41.2**	**80.2**
HA 04 VANCOUVER ISLAND TOTAL		**M**	**366,456**	**3,228**	**3,389**		**24**	**41.5**	**78.9**
		F	**383,170**	**3,041**	**3,252**		**22**	**43.3**	**83.1**
		T	**749,626**	**6,269**	**6,641**	**4,560**	**47**	**42.4**	**81.0**



APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2007



Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2003-2007)
HSDA 51 NORTHWEST									
LHA 050 Queen Charlotte		M	2,671	23	27		-	38.1	74.8
		F	2,366	18	14		-	37.9	85.1
		T	5,037	41	41	22	-	38.0	79.0
Masset	VL	M		12	11		-		
		F		6	6		-		
		T	975	18	17	3	-		
Port Clements	VL	M		1	3		-		
		F		2			-		
		T	472	3	3	4	-		
LHA 051 Snow Country		M	302	3	2		-	40.4	71.1**
		F	262	2	1		-	41.6	82.1**
		T	564	5	3	2	-	40.9	79.6**
Stewart	DM	M		3	2		-		
		F		2	1		-		
		T	528	5	3	2	-		
LHA 052 Prince Rupert		M	7,590	81	57		2	37.1	77.6
		F	7,191	99	41		-	37.6	81.1
		T	14,781	180	98	53	2	37.4	79.2
Port Edward	DM	M		2	5		-		
		F		1	2		-		
		T	607	3	7	1	-		
Prince Rupert	C	M		70	50		2		
		F		88	37		-		
		T	13,435	158	87	52	2		
LHA 053 Upper Skeena		M	2,919	35	13		-	34.8	77.8
		F	2,655	31	11		1	35.3	81.7*
		T	5,574	66	24	18	1	35.1	79.6
Hazelton	VL	M		22	7		-		
		F		21	7		1		
		T	318	43	14	11	1		
New Hazelton	DM	M		7	4		-		
		F		1	3		-		
		T	647	8	7	1	-		
LHA 054 Smithers		M	8,436	106	55		2	36.3	77.9
		F	7,890	105	49		-	36.4	82.3
		T	16,326	211	104	86	2	36.3	80.0
Houston	DM	M		28	14		-		
		F		22	12		-		
		T	3,202	50	26	16	-		
Smithers	T	M		44	22		2		
		F		50	19		-		
		T	5,426	94	41	41	2		
Telkwa	VL	M		15	5		-		
		F		9	7		-		
		T	1,364	24	12	6	-		
LHA 080 Kitimat		M	5,453	38	44		-	38.8	78.6
		F	4,961	45	23		-	38.6	81.8
		T	10,414	83	67	39	-	38.7	80.0
Kitimat	DM	M		31	37		-		
		F		38	22		-		
		T	9,332	69	59	34	-		

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2007

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2003-2007)
LHA 087 Stikine		M	526	2	2		-	39.8	71.1**
		F	493	2	2		-	39.0	82.1**
		T	1,019	4	4	2	-	39.4	79.6**
LHA 088 Terrace		M	10,613	127	75		2	36.8	76.9
		F	10,014	116	57		-	37.1	80.1
		T	20,627	243	132	95	2	36.9	78.4
Terrace	C	M		66	48		1		
		F		66	42		-		
		T	11,911	132	90	56	1		
LHA 092 Nisga'a		M	1,098	16	12		-	33.7	70.8*
		F	912	20	6		-	33.1	74.5*
		T	2,010	36	18	6	-	33.4	72.4
LHA 094 Telegraph Creek		M	384	8	3		-	31.4	71.1**
		F	323	4	2		1	31.9	82.1**
		T	707	12	5	2	1	31.6	79.6**
TOTAL		**M**	**39,992**	**439**	**290**		**6**	**36.9**	**77.0**
		F	**37,067**	**442**	**206**		**2**	**37.1**	**81.3**
		T	**77,059**	**881**	**496**	**325**	**8**	**37.0**	**79.0**

HSDA 52 NORTHERN INTERIOR

LHA 028 Quesnel		M	12,104	130	98		-	39.6	76.7
		F	11,691	126	79		1	39.9	81.7
		T	23,795	256	177	128	1	39.8	79.1
Quesnel	C	M		61	55		-		
		F		58	38		-		
		T	9,915	119	93	58	-		
Wells	DM	M		1			-		
		F					-		
		T	249	1		5	-		
LHA 055 Burns Lake		M	4,174	48	29		-	37.3	76.1
		F	3,885	44	27		-	37.8	80.1
		T	8,059	92	56	24	-	37.5	77.9
Burns Lake	VL	M		45	25		-		
		F		38	21		-		
		T	2,219	83	46	17	-		
Granisle	VL	M		1	3		-		
		F		2	2		-		
		T	393	3	5	2	-		
LHA 056 Nechako		M	7,977	126	67		-	36.9	76.2
		F	7,376	96	54		1	36.4	79.5
		T	15,353	222	121	66	1	36.7	77.7
Fort St. James	DM	M		38	27		-		
		F		29	20		-		
		T	1,463	67	47	11	-		
Fraser Lake	VL	M		9	2		-		
		F		10	3		-		
		T	1,183	19	5	13	-		
Vanderhoof	DM	M		67	32		-		
		F		51	30		1		
		T	4,285	118	62	34	1		
LHA 057 Prince George		M	50,163	570	334		3	36.7	76.4
		F	47,847	520	263		4	37.1	80.5
		T	98,010	1,090	597	462	7	36.9	78.3

APPENDIX 1 – *continued*

STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2007

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)	Type*	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2003-2007)
Mackenzie	DM	M		26	16		-		
		F		27	2		-		
		T	4,715	53	18	17	-		
Mcbride	VL	M		9	12		-		
		F		5	2		-		
		T	694	14	14	11	-		
Prince George	C	M		465	259		2		
		F		428	234		4		
		T	75,375	893	493	351	6		
Valemount	VL	M		3	5		-		
		F		3	1		-		
		T	1,081	6	6	7	-		
TOTAL		**M**	**74,418**	**874**	**528**		**3**	**37.2**	**76.5**
		F	**70,799**	**786**	**423**		**6**	**37.5**	**80.6**
		T	**145,217**	**1,660**	**951**	**680**	**9**	**37.4**	**78.4**
HSDA 53 NORTHEAST									
LHA 059 Peace River South		M	14,073	171	97		1	36.6	76.3
		F	13,492	173	81		-	37.5	81.3
		T	27,565	344	178	154	1	37.0	78.7
Chetwynd	DM	M		30	16		-		
		F		35	8		-		
		T	2,679	65	24	31	-		
Dawson Creek	C	M		86	43		1		
		F		95	42		-		
		T	11,811	181	85	68	1		
Pouce Coupe	VL	M		5	12		-		
		F		6	20		-		
		T	785	11	32	5	-		
Tumbler Ridge	DM	M		18	3		-		
		F		9	2		-		
		T	2,490	27	5	6	-		
LHA 060 Peace River North		M	17,887	306	94		1	33.0	76.8
		F	16,490	297	59		3	32.9	81.3
		T	34,377	603	153	168	4	32.9	78.9
Fort St. John	C	M		189	56		1		
		F		150	43		2		
		T	18,774	339	99	76	3		
Hudson's Hope	DM	M		9	4		-		
		F		8	4		-		
		T	1,062	17	8	7	-		
Taylor	DM	M		22	8		-		
		F		26	1		-		
		T	1,460	48	9	12	-		
LHA 061 Fort Nelson		M	3,452	53	14		1	32.4	87.6
		F	2,981	42	6		-	31.0	83.9^
		T	6,433	95	20	26	2	31.7	86.2
Fort Nelson	T	M		52	14		1		
		F		40	6		-		
		T	4,622	92	20	23	2		
TOTAL		**M**	**35,412**	**530**	**286**		**3**	**34.4**	**76.6**
		F	**32,963**	**512**	**146**		**3**	**34.6**	**81.4**
		T	**68,375**	**1,042**	**351**	**348**	**7**	**34.5**	**78.8**

APPENDIX 1 – *continued*

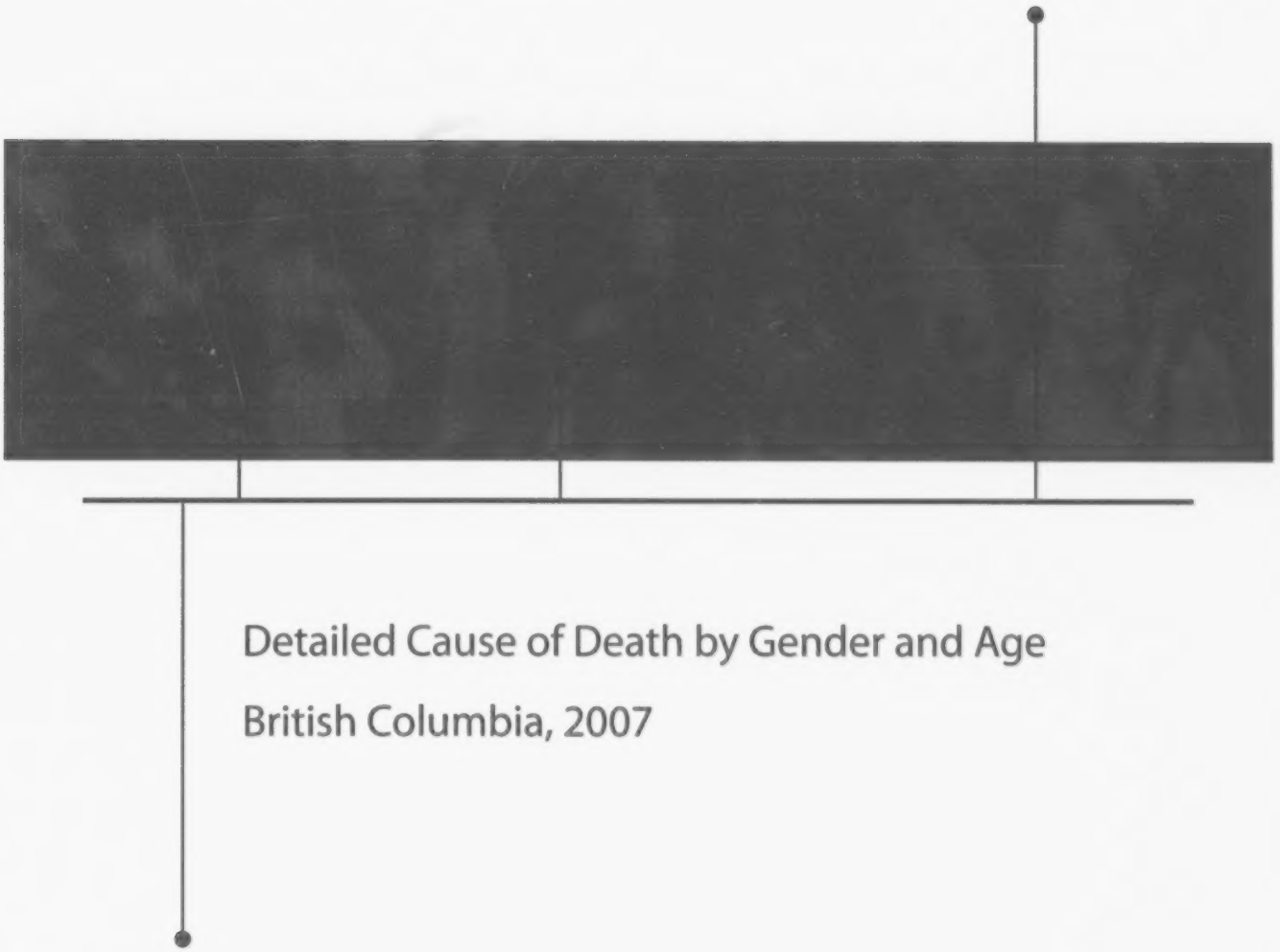
STATISTICAL SUMMARIES BY HEALTH AUTHORITY, HEALTH SERVICE DELIVERY AREA, LOCAL HEALTH AREA AND COMMUNITY

BRITISH COLUMBIA, 2007

Health Authority/ Health Service Delivery Area/ Local Health Area/ Community (Incorporated Only)		Type†	Gender	Population	Live Births	Deaths	Marriages	Stillbirths	Average Age Population	Life Expectancy (2003-2007)
HA 05	NORTHERN		M	149,822	1,843	1,023		12	36.5	76.7
	TOTAL		F	140,829	1,740	775		11	36.7	81.0
			T	290,651	3,583	1,798	1,353	24	36.6	78.7
HA 08	PROVINCIAL		M	2,172,191	22,463	16,005		173	39.1	78.9
	HEALTH		F	2,208,065	21,054	15,100		166	40.7	83.3
	SERVICE		T	4,380,256	43,517	31,105	22,961	350	39.9	81.1
	AUTHORITY (PROVINCIAL TOTAL)									

Note: Live births, stillbirths and deaths are assigned to communities based on the postal code of usual residence.
Marriages are assigned according to the place where the marriage ceremony was performed, and include non-residents.
Totals for gender include cases with unknown gender.
Population estimates and average age (2007) and life expectancy (2003 -2007) from BC STATS, Ministry of Labour and Citizens' Services.
† C=City, T=Town, VL=Village, DM=District Municipality, IGD= Indian Government District, IM=Island Municipality, RM=Resort Municipality.
Some communities span the boundaries of more than one LHA. When this occurs, the community is shown under the LHA containing the larger portion of the population.
HSDA 32 Vancouver Total may include unspecified Vancouver addresses.
*This may be too small a population size to estimate Life Expectancy with any confidence.
**LHAs 51, 87, 94 have been combined to have a common life expectancy as they individually include regions too small for calculation.

Appendix Two



Detailed Cause of Death by Gender and Age

British Columbia, 2007

Preamble to Appendix 2

Appendix 2 provides detailed causes of death by gender and age group for deaths that occurred in BC to provincial residents in the current year. Causes of death are coded according to the World Health Organization's *International Statistical Classification of Diseases and Related Health Problems, Tenth Revision (ICD-10)*. ICD-10 defines the underlying cause of death as "(a) the disease or injury which initiated the train of events leading directly to death, or (b) the circumstances of the accident or violence which produced the fatal injury." ICD-10 codes consist of a letter followed by a two-digit number, and often include a third digit to provide more specificity. In this appendix, the ICD-10 codes are presented at the three character level only, truncating the third digit.

The list below provides a summary of ICD-10 codes, including many of the subgroups used for underlying causes of death in this report:

Cause of Death Category	ICD-10 Code(s)
Certain infectious and parasitic diseases	A00-B99
Tuberculosis	A15-A19, B90
HIV disease	B20-B24
Neoplasms	C00-D48
Malignant neoplasms	C00-C97
Malignant neoplasm of colon and rectum	C18-C21
Malignant neoplasm of lung	C34
Malignant neoplasm of female breast	C500-C509
Diseases of blood and blood-forming organs and disorders involving the immune mechanism	D50-D89
Endocrine, nutritional, and metabolic diseases	E00-E90
Diabetes mellitus	E10-E14
Mental and behavioural disorders	F00-F99
Vascular/senile dementia	F01, F03
Psychoactive substance and drug use/abuse	F11-F16, F19
Diseases of the nervous system	G00-G99
Alzheimer's disease	G30
Diseases of the eye and adnexa	H00-H59
Diseases of the ear and mastoid process	H60-H95
Diseases of the circulatory system	I00-I99
Cardiovascular disease	I00-I51
Ischemic heart diseases	I20-I25
Cerebrovascular diseases	I60-I69
Atherosclerosis	I70
Diseases of the respiratory system	J00-J99
Pneumonia/Influenza (excluding hypostatic)	J10-J181, J188, J189
Chronic Pulmonary Disease	J40-J44
Asthma	J45-J46
Diseases of the digestive system	K00-K93
Diseases of liver	K70-K76
Chronic liver disease/cirrhosis	K70, K73-74, K760-K761
Diseases of the skin and subcutaneous tissue	L00-L99
Diseases of the musculoskeletal system and connective tissue	M00-M99

Diseases of the genitourinary system	N00-N99
Complications of pregnancy, childbirth, and the puerperium	O00-O99
Certain conditions originating in the perinatal period	P00-P96
Congenital malformations and chromosome abnormalities	Q00-Q99
Symptoms, signs and abnormal finding, unknown causes	R00-R99
Sudden infant death syndrome (SIDS)	R95
Cause of death unknown or pending	R96-R99
External causes	V01-Y98
Motor vehicle accidents	V02-V04, V09, V12-V14, V190-V196, V20-V79, V803-V805, V820-V821, V823-V890, V899, Y850
Other transport accidents	V01, V05-V06, V10-V11, V15-V18, V198-V199, V800-V802, V806-V809, V812-V819, V822-V829, V891, V893, V91, V93-V99, Y859
Unintentional drowning (including water transport)	V90, V92, W65-W74
Unintentional falls	W00-W19
Exposure to smoke, fire and flames	X00-X09
Unintentional poisoning	X40-X49
Suicide	X60-X84, Y870
Homicide	X85-Y09, Y871

APPENDIX 2
DETAILED CAUSE OF DEATH BY GENDER AND AGE
BRITISH COLUMBIA, 2007

ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
A04	Other bacterial intestinal infections	M	-	-	-	-	-	-	-	5	10	20	35
		F	-	-	-	-	-	-	-	1	10	33	44
A08	Viral and other specified intestinal infections	M	-	-	-	-	-	-	-	-	-	1	1
		F	-	-	-	-	-	-	-	-	-	15	15
A16	Respiratory tuberculosis	M	-	-	-	-	-	-	-	2	1	3	6
		F	-	-	-	-	-	-	1	-	-	2	3
A40	Streptococcal septicemia	M	-	-	-	-	-	-	1	2	-	-	3
		F	-	-	-	-	-	-	-	1	-	2	3
A41	Other septicemia	M	-	-	-	-	-	-	1	10	38	45	94
		F	1	-	-	-	-	-	1	11	23	57	93
A49	Bacterial infection of unspecified site	M	-	-	-	-	-	-	-	1	1	2	4
		F	-	-	-	-	-	-	1	-	-	2	3
A81	Atypical virus infections of central nervous system	M	-	-	-	-	-	-	-	2	1	2	5
		F	-	-	-	-	-	-	-	1	-	-	1
B02	Zoster [herpes zoster]	M	-	-	-	-	-	-	-	-	-	3	3
		F	-	-	-	-	-	-	-	-	1	5	6
B18	Chronic viral hepatitis	M	-	-	-	-	-	-	4	51	9	3	77
		F	-	-	-	-	-	-	2	24	8	2	36
B20	HIV resulting in infectious and parasitic diseases	M	-	-	-	-	-	-	20	16	1	-	37
		F	-	-	-	-	-	-	5	8	2	-	15
B21	HIV resulting in malignant neoplasms	M	-	-	-	-	-	-	4	5	1	-	10
		F	-	-	-	-	-	-	-	-	-	-	-
B22	HIV resulting in other specified diseases	M	-	-	-	-	-	-	3	6	3	-	12
		F	-	-	-	-	-	1	1	1	-	-	3
B23	HIV disease resulting in other conditions	M	-	-	-	-	-	-	3	7	1	-	11
		F	-	-	-	-	-	-	-	-	-	-	-
B24	Unspecified HIV disease	M	-	-	-	-	-	-	2	5	-	-	7
		F	-	-	-	-	-	-	1	1	-	-	2
C02	Malignant neoplasm of other and unspecified parts of tongue	M	-	-	-	-	-	-	-	6	6	2	14
		F	-	-	-	-	-	-	1	8	7	7	23
C06	Malignant neoplasm of other and unspecified parts of mouth	M	-	-	-	-	-	-	1	1	3	3	8
		F	-	-	-	-	-	-	1	2	1	5	9
C07	Malignant neoplasm of parotid gland	M	-	-	-	-	-	-	-	2	3	3	8
		F	-	-	-	-	-	-	-	2	2	1	5
C09	Malignant neoplasm of tonsil	M	-	-	-	-	-	-	-	11	4	-	15
		F	-	-	-	-	-	-	-	-	1	-	1
C10	Malignant neoplasm of oropharynx	M	-	-	-	-	-	-	-	6	2	-	8
		F	-	-	-	-	-	-	-	-	-	1	1
C11	Malignant neoplasm of nasopharynx	M	-	-	-	-	-	-	2	5	9	1	17
		F	-	-	-	-	-	-	1	3	2	-	6
C14	Malignant neop. of other and ill-defined sites in the lip, oral cavity and pharynx	M	-	-	-	-	-	-	-	10	9	3	22
		F	-	-	-	-	-	-	-	3	1	1	5
C15	Malignant neoplasm of esophagus	M	-	-	-	-	-	-	3	71	83	42	199
		F	-	-	-	-	-	-	-	12	25	28	65
C16	Malignant neoplasm of stomach	M	-	-	-	-	-	-	4	31	60	37	132
		F	-	-	-	-	-	-	6	22	22	32	82
C17	Malignant neoplasm of small intestine	M	-	-	-	-	-	-	-	3	2	2	7
		F	-	-	-	-	-	-	-	1	5	4	10
C18	Malignant neoplasm of colon	M	-	-	-	-	-	-	4	95	168	117	384
		F	-	-	-	-	-	-	9	58	97	158	322
C19	Malignant neoplasm of rectosigmoid junction	M	-	-	-	-	-	-	-	17	10	4	31
		F	-	-	-	-	-	-	1	3	8	9	21
C20	Malignant neoplasm of rectum	M	-	-	-	-	-	-	4	29	30	32	95
		F	-	-	-	-	-	-	1	11	22	22	56
C21	Malignant neoplasm of anus and anal canal	M	-	-	-	-	-	-	-	2	5	1	8
		F	-	-	-	-	-	-	-	5	4	4	13
C22	Malignant neoplasm of liver and intrahepatic bile ducts	M	-	-	-	-	-	-	7	64	80	29	180
		F	-	-	-	-	-	-	2	24	42	25	93
C23	Malignant neoplasm of gallbladder	M	-	-	-	-	-	-	1	3	8	3	15
		F	-	-	-	-	-	-	-	8	6	6	20
C24	Malignant neoplasm of other and unspecified parts of biliary tract	M	-	-	-	-	-	-	-	3	6	4	13
		F	-	-	-	-	-	-	-	-	7	8	15

Notes are included at end of Appendix 2.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2007

ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
C25	Malignant neoplasm of pancreas	M	-	-	-	-	-	-	2	81	118	58	259
		F	-	-	-	-	-	-	1	48	90	102	241
C26	Malignant neoplasm of other and ill-defined digestive organs	M	-	-	-	-	-	-	2	20	45	27	94
		F	-	-	-	-	-	-	-	11	28	42	81
C31	Malignant neoplasm of accessory sinuses	M	-	-	-	-	-	-	-	2	-	1	3
		F	-	-	-	-	-	-	-	-	1	1	2
C32	Malignant neoplasm of larynx	M	-	-	-	-	-	-	1	14	13	8	36
		F	-	-	-	-	-	-	-	1	6	-	7
C34	Malignant neoplasm of bronchus and lung	M	-	-	-	-	-	-	8	285	617	327	1,237
		F	-	-	-	-	-	-	11	258	481	324	1,074
C38	Malignant neoplasm of heart, mediastinum and pleura	M	-	-	-	-	-	-	-	4	1	1	6
		F	-	-	-	-	-	-	-	-	1	2	3
C41	Malignant neop. of bone and articular cartilage of other and unspecified sites	M	-	-	-	-	2	-	-	4	3	-	9
		F	-	-	-	-	1	-	-	1	4	6	12
C43	Malignant melanoma of skin	M	-	-	-	-	-	-	4	33	23	11	71
		F	-	-	-	-	-	1	3	19	12	18	53
C44	Other malignant neoplasms of skin	M	-	-	-	-	-	-	-	9	13	17	39
		F	-	-	-	-	-	-	-	2	3	10	15
C45	Mesothelioma	M	-	-	-	-	-	-	-	12	31	21	64
		F	-	-	-	-	-	-	-	3	12	-	15
C48	Malignant neoplasm of peritoneum & retro-peritoneum	M	-	-	-	-	-	-	-	1	-	1	2
		F	-	-	-	-	-	-	-	6	5	6	17
C49	Malignant neoplasm of other connective and soft tissue	M	-	-	-	-	1	-	4	8	12	7	32
		F	-	1	-	-	-	-	2	6	10	7	26
C50	Malignant neoplasm of breast	M	-	-	-	-	-	-	-	2	5	-	7
		F	-	-	-	-	-	-	38	240	172	185	635
C51	Malignant neoplasm of vulva	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	3	3	7	13
C53	Malignant neoplasm of cervix uteri	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	14	22	6	7	49
C54	Malignant neoplasm of corpus uteri	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	2	18	18	18	54
C55	Malignant neoplasm of uterus, part unspecified	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	1	14	12	13	40
C56	Malignant neoplasm of ovary	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	1	-	3	60	73	57	194
C57	Malignant neoplasm of other and unspecified female genital organs	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	4	1	5
C60	Malignant neoplasm of penis	M	-	-	-	-	-	-	-	1	4	1	6
		F	-	-	-	-	-	-	-	-	-	-	-
C61	Malignant neoplasm of prostate	M	-	-	-	-	-	-	-	48	182	317	547
		F	-	-	-	-	-	-	-	-	-	-	-
C62	Malignant neoplasm of testis	M	-	-	-	-	-	1	2	2	-	1	6
		F	-	-	-	-	-	-	-	-	-	-	-
C64	Malignant neoplasm of kidney, except renal pelvis	M	-	-	-	-	-	-	1	33	50	30	114
		F	-	-	1	-	-	-	-	14	21	20	56
C66	Malignant neoplasm of ureter	M	-	-	-	-	-	-	-	2	3	1	6
		F	-	-	-	-	-	-	-	-	-	-	-
C67	Malignant neoplasm of bladder	M	-	-	-	-	-	-	2	31	82	86	201
		F	-	-	-	-	-	-	1	15	22	50	88
C68	Malignant neoplasm of other and unspecified urinary organs	M	-	-	-	-	-	-	-	4	5	2	11
		F	-	-	-	-	-	-	-	1	-	2	3
C71	Malignant neoplasm of brain	M	1	1	-	2	-	1	20	59	51	15	150
		F	-	1	2	1	-	1	6	32	30	17	90
C73	Malignant neoplasm of thyroid gland	M	-	-	-	-	-	-	-	1	3	1	5
		F	-	-	-	-	-	-	-	2	3	4	9
C74	Malignant neoplasm of adrenal gland	M	-	-	1	-	-	1	-	4	1	1	8
		F	-	-	1	-	-	-	1	-	2	-	4
C76	Malignant neoplasm of other and ill-defined sites	M	-	-	-	-	-	-	-	2	8	9	19
		F	-	-	-	-	-	-	-	3	8	10	21
C78	Secondary malignant neoplasm of respiratory and digestive organs	M	-	-	-	-	-	-	-	2	-	1	3
		F	-	-	-	-	-	-	-	1	-	2	3

Notes are included at end of Appendix 2.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2007

ICD-10	Cause of Death	Gender	Age of Deceased (in Years)										Total
			<1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	
C80	Malignant neoplasm - primary site unknown	M	-	-	-	-	-	-	4	34	84	65	187
		F	-	-	-	-	-	-	2	35	65	91	193
C81	Hodgkin's disease	M	-	-	-	-	-	1	-	-	1	-	2
		F	-	-	-	-	-	-	1	1	3	-	5
C82	Follicular [nodular] non-Hodgkin's lymphoma	M	-	-	-	-	-	-	-	-	2	-	2
		F	-	-	-	-	-	-	-	-	1	2	3
C83	Diffuse non-Hodgkin's lymphoma	M	-	-	-	-	-	-	-	6	9	5	20
		F	-	-	-	-	-	-	2	1	5	8	16
C84	Peripheral and cutaneous T-cell lymphomas	M	-	-	-	-	-	-	2	3	4	1	10
		F	-	-	-	-	-	-	-	3	3	1	7
C85	Other and unspecified types of non-Hodgkin's lymphoma	M	-	-	-	-	-	1	5	30	62	39	137
		F	-	-	-	-	-	1	2	21	47	47	118
C88	Malignant immunoproliferative diseases	M	-	-	-	-	-	-	-	1	2	3	6
		F	-	-	-	-	-	-	-	-	3	-	3
C90	Multiple myeloma and malignant plasma cell neoplasms	M	-	-	-	-	-	-	1	15	39	32	87
		F	-	-	-	-	-	-	-	9	26	40	75
C91	Lymphoid leukemia	M	-	1	2	-	-	2	1	6	22	19	53
		F	-	-	1	-	1	-	-	3	17	11	33
C92	Myeloid leukemia	M	-	-	-	-	-	-	5	19	36	15	75
		F	-	-	-	1	-	-	2	10	20	22	55
C95	Leukemia of unspecified cell type	M	-	-	-	-	-	1	-	2	16	18	37
		F	-	-	-	1	-	-	-	6	7	21	35
D32	Benign neoplasm of meninges	M	-	-	-	-	-	-	-	1	1	2	4
		F	-	-	-	-	-	-	-	1	5	4	10
D37	Neoplasm of uncer./unk. behaviour of oral cavity and digestive organs	M	-	-	-	-	-	-	-	-	-	2	2
		F	-	-	-	-	-	-	-	-	3	5	8
D38	Neoplasm of uncer./unk. behaviour of mid. ear, resp. and intrathoracic organs	M	-	-	-	-	-	-	-	-	2	2	4
		F	-	-	-	-	-	-	-	-	-	2	2
D43	Neoplasm of uncer./unk. behaviour of brain & central nervous system	M	-	-	-	-	-	-	-	4	1	2	7
		F	-	-	-	-	-	-	-	-	9	2	11
D45	Polycythemia vera	M	-	-	-	-	-	-	-	1	1	-	2
		F	-	-	-	-	-	-	-	-	2	1	3
D46	Myelodysplastic syndromes	M	-	-	-	-	-	-	-	2	7	33	42
		F	-	-	-	-	-	-	-	2	11	11	24
D47	Neoplasm of uncer./unk. behaviour of lymphoid, hematopoietic and rel. tissue	M	-	-	-	-	-	-	-	-	11	14	25
		F	-	-	-	-	-	-	-	-	1	8	9
D48	Neoplasm of uncer./unk. behaviour of other and unspecified sites	M	-	-	-	-	-	-	-	3	3	-	6
		F	-	-	-	-	-	-	-	-	-	3	3
D58	Other hereditary haemolytic anaemias	M	-	-	-	-	-	-	-	1	1	-	2
		F	-	-	-	-	-	-	-	-	1	2	3
D61	Other aplastic anemias	M	-	-	-	-	-	-	-	1	3	3	7
		F	-	-	-	-	-	-	-	1	1	2	4
D64	Other anemias	M	-	-	-	-	-	-	-	-	-	14	14
		F	-	-	-	-	-	-	-	1	2	13	16
D65	Disseminated intravascular coagulation [defibrination syndrome]	M	-	-	-	-	-	-	1	1	-	1	3
		F	-	-	-	-	-	-	-	-	2	-	2
D68	Other coagulation defects	M	-	-	-	-	-	-	-	2	1	-	3
		F	-	-	-	-	-	-	-	1	1	1	3
D69	Purpura and other hemorrhagic conditions	M	-	-	-	-	-	-	-	-	1	2	3
		F	-	-	-	-	-	-	-	-	3	5	8
D70	Agranulocytosis	M	-	-	-	-	-	-	-	1	1	2	4
		F	-	-	-	-	-	-	-	-	-	1	1
D86	Sarcoidosis	M	-	-	-	-	-	-	-	1	1	-	2
		F	-	-	-	-	-	-	-	2	3	-	5
E03	Other hypothyroidism	M	-	-	-	-	-	-	-	-	2	2	4
		F	-	-	-	-	-	-	-	-	1	5	6
E10	Insulin-dependent diabetes mellitus	M	-	-	-	-	-	-	-	8	12	9	29
		F	-	-	-	-	-	-	2	4	9	15	30
E11	Non-insulin-dependent diabetes mellitus	M	-	-	-	-	-	-	-	17	46	55	118
		F	-	-	-	-	-	-	-	7	30	56	93
E14	Diabetes mellitus NOS	M	-	-	-	-	-	-	10	71	154	179	414
		F	-	-	-	-	-	-	2	33	102	199	336

Notes are included at end of Appendix 2.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2007

ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
E22	Hyperfunction of pituitary gland	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	1	-	4	5
E46	Unspecified protein-energy malnutrition	M	-	-	-	-	-	-	-	2	3	3	8
		F	-	-	-	-	-	-	-	-	2	11	13
E66	Obesity	M	-	-	-	-	-	-	3	8	6	3	20
		F	-	-	-	-	-	-	-	8	12	7	27
E78	Disorders of lipoprotein metabolism and other lipidemias	M	-	-	-	-	-	-	-	8	11	17	36
		F	-	-	-	-	-	-	-	1	6	12	19
E84	Cystic fibrosis	M	-	-	-	-	-	-	1	-	-	-	1
		F	-	-	-	-	1	1	2	-	1	-	5
E85	Amyloidosis	M	-	-	-	-	-	-	-	1	6	4	11
		F	-	-	-	-	-	-	-	2	3	2	7
E86	Volume depletion	M	-	-	-	-	-	-	-	1	4	8	13
		F	-	-	-	-	-	-	-	-	-	22	22
E87	Other disorders of fluid, electrolyte and acid-base balance	M	-	-	-	-	-	-	1	3	3	4	11
		F	-	-	-	-	-	-	-	1	2	9	12
E88	Other metabolic disorders	M	-	-	-	-	-	-	-	1	1	1	3
		F	-	-	-	-	-	-	-	-	2	2	4
F01	Vascular dementia	M	-	-	-	-	-	-	-	-	1	2	3
		F	-	-	-	-	-	-	-	-	1	4	5
F03	Unspecified dementia	M	-	-	-	-	-	-	1	9	57	238	305
		F	-	-	-	-	-	-	-	5	46	531	582
F05	Delirium, not induced by alcohol and other psychoactive substances	M	-	-	-	-	-	-	-	-	3	14	17
		F	-	-	-	-	-	-	-	-	1	6	7
F06	Oth. mental disord. due to brain damage & dysfunction & phys. dis.	M	-	-	-	-	-	-	-	2	-	-	2
		F	-	-	-	-	-	-	-	-	2	2	4
F10	Mental and behavioural disorders due to use of alcohol	M	-	-	-	-	-	-	4	33	32	11	80
		F	-	-	-	-	-	-	2	11	7	3	23
F14	Use of cocaine	M	-	-	-	-	-	-	4	3	-	-	7
		F	-	-	-	-	-	-	3	-	1	-	4
F17	Use of tobacco	M	-	-	-	-	-	-	-	1	2	2	5
		F	-	-	-	-	-	-	-	-	1	-	1
F19	Multiple drug misuse and misuse of other psychoactive substances	M	-	-	-	-	-	-	4	4	-	-	8
		F	-	-	-	-	-	-	2	2	-	-	4
F20	Schizophrenia	M	-	-	-	-	-	-	1	-	1	1	3
		F	-	-	-	-	-	-	-	-	1	6	7
F32	Depressive episode	M	-	-	-	-	-	-	-	-	1	1	2
		F	-	-	-	-	-	-	-	-	1	5	6
F33	Recurrent depressive disorder	M	-	-	-	-	-	-	-	-	-	2	2
		F	-	-	-	-	-	-	-	-	1	5	6
F50	Eating disorders	M	-	-	-	-	-	-	-	-	-	1	1
		F	-	-	-	-	-	-	3	-	-	7	10
G03	Meningitis due to other and unspecified causes	M	-	-	-	-	1	-	-	-	-	-	1
		F	-	-	-	-	-	-	2	2	-	-	4
G04	Encephalitis, myelitis and encephalomyelitis	M	-	-	-	-	-	-	-	3	-	-	3
		F	-	-	-	-	1	-	-	1	-	-	2
G10	Huntington's disease	M	-	-	-	-	-	-	-	6	1	-	7
		F	-	-	-	-	-	-	-	3	-	-	3
G12	Spinal muscular atrophy and related syndromes	M	1	1	-	-	-	-	3	27	29	8	69
		F	1	-	-	-	-	-	-	11	17	17	46
G20	Parkinson's disease	M	-	-	-	-	-	-	-	1	51	100	152
		F	-	-	-	-	-	-	-	1	22	88	111
G30	Alzheimer's disease	M	-	-	-	-	-	-	-	6	42	125	173
		F	-	-	-	-	-	-	-	2	43	355	400
G31	Other degenerative diseases of nervous system, NEC	M	-	-	-	-	-	-	-	4	12	18	34
		F	-	-	-	-	-	-	-	4	12	18	34
G35	Multiple sclerosis	M	-	-	-	-	-	1	2	7	4	2	16
		F	-	-	-	-	-	-	2	23	10	6	41
G40	Epilepsy	M	-	-	-	1	2	1	3	6	1	1	15
		F	-	-	-	-	-	-	-	-	-	2	2
G45	Transient cerebral ischemic attacks and related syndromes	M	-	-	-	-	-	-	-	-	-	5	5
		F	-	-	-	-	-	-	-	-	-	3	3

Notes are included at end of Appendix 2.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2007

ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
G70	Other myoneural disorders	M	-	-	-	-	-	-	-	-	2	1	3
		F	-	-	-	-	1	-	-	2	-	2	5
G71	Primary disorders of muscles	M	2	-	-	-	3	2	-	2	-	1	10
		F	-	-	-	-	-	-	-	4	2	2	8
G80	Infantile cerebral palsy	M	-	-	-	-	-	1	-	2	-	-	3
		F	-	-	-	-	1	-	2	2	1	-	6
G93	Other disorders of brain	M	-	-	1	-	-	-	1	12	10	2	26
		F	-	-	-	-	-	-	2	5	8	3	18
G95	Other diseases of spinal cord	M	-	-	-	-	-	-	-	-	-	3	3
		F	-	-	-	-	-	-	-	-	-	2	2
I05	Rheumatic mitral valve diseases	M	-	-	-	-	-	-	-	1	4	5	10
		F	-	-	-	-	-	-	1	2	4	5	12
I07	Rheumatic tricuspid valve diseases	M	-	-	-	-	-	-	1	-	2	2	5
		F	-	-	-	-	-	-	1	-	2	3	6
I08	Multiple valve diseases	M	-	-	-	-	-	-	-	3	3	4	10
		F	-	-	-	-	-	-	-	1	4	6	11
I09	Other rheumatic heart diseases	M	-	-	-	-	-	-	-	-	2	-	2
		F	-	-	-	-	-	-	-	-	1	2	3
I10	Essential (primary) hypertension	M	-	-	-	-	-	-	-	1	12	23	36
		F	-	-	-	-	-	-	-	1	7	52	60
I11	Hypertensive heart disease	M	-	-	-	-	-	-	1	6	11	22	40
		F	-	-	-	-	-	-	-	-	8	35	43
I12	Hypertensive renal disease	M	-	-	-	-	-	-	-	2	6	27	35
		F	-	-	-	-	-	-	-	-	7	55	62
I13	Hypertensive heart and renal disease	M	-	-	-	-	-	-	-	-	-	4	4
		F	-	-	-	-	-	-	-	-	2	3	5
I20	Angina pectoris	M	-	-	-	-	-	-	-	1	1	1	3
		F	-	-	-	-	-	-	-	-	-	3	3
I21	Acute MI	M	-	-	-	-	-	1	13	179	429	519	1,141
		F	-	-	-	-	-	-	-	40	175	610	825
I24	Other acute ischemic heart diseases	M	-	-	-	-	-	-	1	5	17	30	53
		F	-	-	-	-	-	-	-	7	12	29	48
I25	Chronic ischemic heart disease	M	-	-	-	-	-	-	17	235	392	642	1,286
		F	-	-	-	-	-	-	5	43	196	810	1,054
I26	Pulmonary embolism	M	-	-	-	-	-	-	2	6	10	10	28
		F	-	-	-	-	-	-	2	7	10	20	39
I27	Other pulmonary heart diseases	M	-	-	-	-	-	-	1	4	5	6	16
		F	-	-	-	-	-	-	1	2	3	13	19
I31	Other diseases of pericardium	M	-	-	-	-	-	-	-	-	2	1	3
		F	-	-	-	-	-	-	-	-	1	1	2
I33	Acute and subacute endocarditis	M	-	-	-	-	-	-	-	2	4	1	7
		F	-	-	-	-	-	-	3	1	-	-	4
I34	Nonrheumatic mitral valve disorders	M	-	-	-	-	-	-	-	1	8	16	25
		F	-	-	-	-	1	-	-	1	3	11	16
I35	Nonrheumatic aortic valve disorders	M	-	-	-	-	-	-	-	6	19	42	67
		F	-	-	-	-	-	-	-	2	8	74	84
I38	Endocarditis	M	-	-	-	-	-	-	1	6	8	23	38
		F	-	-	-	-	-	-	2	4	7	31	44
I42	Cardiomyopathy	M	-	-	-	-	1	1	6	30	30	37	105
		F	-	-	-	-	-	-	4	11	19	18	52
I44	Atrioventricular and left bundle-branch block	M	-	-	-	-	-	-	-	-	3	4	7
		F	-	-	-	-	-	-	-	-	-	3	3
I45	Other conduction disorders	M	-	-	-	-	-	-	-	-	1	4	5
		F	-	-	-	-	-	-	-	-	1	5	6
I46	Cardiac arrest	M	-	-	-	-	-	-	1	1	8	6	16
		F	-	-	-	-	-	-	-	1	4	14	19
I47	Paroxysmal tachycardia	M	-	-	-	-	-	-	-	-	2	-	2
		F	-	-	-	-	-	-	-	1	1	2	4
I48	Atrial fibrillation and flutter	M	-	-	-	-	-	-	-	6	29	104	139
		F	-	-	-	-	-	-	-	2	26	218	246
I49	Other cardiac arrhythmias	M	-	-	-	-	-	-	2	5	10	24	41
		F	-	-	-	-	-	-	1	1	5	37	44

Notes are included at end of Appendix 2.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2007

ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
I50	Heart failure	M	-	-	-	-	-	-	-	7	68	224	297
		F	-	-	-	-	-	-	-	4	41	418	463
I51	Complications and ill-defined descriptions of heart disease	M	-	-	-	-	-	1	5	5	18	15	42
		F	-	-	-	-	-	-	1	4	6	24	35
I60	Subarachnoid hemorrhage	M	-	-	-	-	-	1	5	22	13	3	44
		F	-	-	-	-	-	-	7	15	21	14	57
I61	Intracerebral hemorrhage	M	-	-	-	-	-	1	3	27	37	37	105
		F	-	-	-	-	-	-	4	11	30	74	119
I62	Other nontraumatic intracranial hemorrhage	M	-	-	-	-	-	-	-	5	21	20	46
		F	-	-	-	-	-	-	-	10	17	32	59
I63	Cerebral infarction	M	-	-	-	-	-	-	1	7	19	21	48
		F	-	-	-	-	-	-	-	-	17	34	51
I64	CVA, NOS	M	-	-	-	-	-	-	1	37	154	346	538
		F	-	-	-	-	-	-	-	16	141	701	858
I65	Occlusion and stenosis of precerebral arteries, not resulting in cerebral infarc.	M	-	-	-	-	-	-	-	1	2	1	4
		F	-	-	-	-	-	-	-	-	1	2	3
I67	Other cerebrovascular diseases	M	-	-	-	-	-	-	-	7	22	65	94
		F	-	-	-	-	-	-	-	7	18	136	161
I69	Sequelae of cerebrovascular disease	M	-	-	-	-	-	-	-	-	19	40	59
		F	-	-	-	-	-	-	-	2	11	54	67
I70	Atherosclerosis	M	-	-	-	-	-	-	-	4	10	26	40
		F	-	-	-	-	-	-	-	-	12	49	61
I71	Aortic aneurysm and dissection	M	-	-	-	-	-	-	5	23	54	65	147
		F	-	-	-	-	-	-	1	4	22	60	87
I72	Other aneurysm	M	-	-	-	-	-	-	-	2	2	2	6
		F	-	-	-	-	-	-	-	-	2	-	2
I73	Other peripheral vascular diseases	M	-	-	-	-	-	-	1	2	10	31	44
		F	-	-	-	-	-	-	-	-	11	50	61
I74	Arterial embolism and thrombosis	M	-	-	-	-	-	-	-	-	1	1	2
		F	-	-	-	-	-	-	-	-	1	2	3
I77	Other disorders of arteries and arterioles	M	-	-	-	-	-	-	-	2	8	2	12
		F	-	-	-	-	-	-	-	2	2	2	6
I80	Phlebitis and thrombophlebitis	M	-	-	-	-	-	-	1	4	6	6	17
		F	-	-	-	-	-	-	2	2	2	7	13
J11	Influenza, virus not identified	M	-	-	-	-	-	1	-	-	-	4	5
		F	-	-	1	-	-	-	-	1	1	7	10
J15	Bacterial pneumonia, NEC	M	-	-	-	1	-	-	1	3	5	2	12
		F	-	-	-	-	-	-	3	5	1	1	10
J18	Pneumonia, organism unspecified	M	1	-	-	-	-	2	3	45	112	390	553
		F	1	-	-	-	1	2	4	21	74	584	687
J22	Unspecified acute lower respiratory infection	M	-	-	-	-	-	-	-	-	1	1	2
		F	-	-	-	-	-	-	-	-	-	4	4
J40	Bronchitis, not specified as acute or chronic	M	-	-	-	-	-	-	-	-	1	3	4
		F	-	-	-	-	-	-	-	-	-	3	3
J42	Unspecified chronic bronchitis	M	-	-	-	-	-	-	-	-	1	1	2
		F	-	-	-	-	-	-	-	-	1	3	4
J43	Emphysema	M	-	-	-	-	-	-	-	12	33	29	74
		F	-	-	-	-	-	-	-	8	26	32	66
J44	Other chronic obstructive pulmonary disease	M	-	-	-	-	-	-	3	50	244	349	646
		F	-	-	-	-	-	-	1	46	191	309	547
J45	Asthma	M	-	-	-	-	1	1	-	3	1	10	16
		F	-	-	-	-	-	-	2	1	3	14	20
J47	Bronchiectasis	M	-	-	-	-	-	-	-	-	5	7	12
		F	-	-	-	-	-	-	1	1	5	11	18
J61	Pneumoconiosis due to asbestos and other mineral fibres	M	-	-	-	-	-	-	-	-	4	6	10
		F	-	-	-	-	-	-	-	-	-	-	-
J62	Pneumoconiosis due to dust containing silica	M	-	-	-	-	-	-	-	-	3	2	5
		F	-	-	-	-	-	-	-	-	-	-	-
J69	Aspiration pneumonia due to solids and liquids	M	-	-	-	-	-	1	4	14	36	80	135
		F	-	-	-	-	-	-	4	5	24	86	119
J80	Adult respiratory distress syndrome	M	-	-	-	-	-	-	-	3	3	1	7
		F	-	-	-	-	-	-	1	3	1	1	6

Notes are included at end of Appendix 2.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2007

ICD-10	Cause of Death	Gender	Age of Deceased (in Years)										Total
			<1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	
J84	Other interstitial pulmonary diseases	M	-	-	-	-	-	-	-	11	46	58	115
		F	-	-	-	-	-	-	-	9	29	41	79
J90	Pleural effusion, NEC	M	-	-	-	-	-	-	-	-	1	1	2
		F	-	-	-	-	-	-	-	-	1	4	5
J96	Respiratory failure, NEC	M	-	-	-	-	-	-	-	-	-	3	3
		F	-	-	-	-	-	-	-	1	-	7	8
J98	Other respiratory disorders	M	-	-	-	-	-	-	-	1	8	9	18
		F	-	-	-	-	-	-	-	2	3	24	29
K21	Gastro-esophageal reflux disease	M	-	-	-	-	-	-	1	1	2	2	6
		F	-	1	-	-	-	-	-	-	4	3	8
K22	Other diseases of esophagus	M	-	-	-	-	-	-	-	-	-	6	6
		F	-	-	-	-	-	-	-	2	-	4	6
K25	Gastric ulcer	M	-	-	-	-	-	-	1	1	2	3	7
		F	-	-	-	-	-	-	-	4	-	3	7
K26	Duodenal ulcer	M	-	-	-	-	-	-	-	6	6	7	19
		F	-	-	-	-	-	-	-	1	2	3	6
K27	Peptic ulcer	M	-	-	-	-	-	-	-	1	4	4	9
		F	-	-	-	-	-	-	-	1	3	10	14
K29	Gastritis and duodenitis	M	-	-	-	-	-	-	-	2	2	2	6
		F	-	-	-	-	-	-	-	-	1	3	4
K31	Other diseases of stomach and duodenum	M	-	-	-	-	-	-	-	-	1	1	2
		F	-	-	1	-	-	-	-	-	-	2	3
K40	Inguinal hernia	M	-	-	-	-	-	-	-	-	-	5	5
		F	-	-	-	-	-	-	-	-	-	1	1
K44	Diaphragmatic hernia	M	-	-	-	-	-	-	-	-	1	2	3
		F	-	-	-	-	-	-	-	-	-	7	7
K46	Unspecified abdominal hernia	M	-	-	-	-	-	-	-	3	2	1	6
		F	-	-	-	-	-	-	-	1	4	2	7
K50	Crohn's disease	M	-	-	-	-	-	-	1	-	-	2	3
		F	-	-	-	-	-	-	-	3	3	2	8
K52	Other noninfective gastroenteritis and colitis	M	1	-	-	-	-	-	1	4	4	12	22
		F	-	-	-	-	-	-	1	1	6	27	35
K55	Vascular disorders of intestine	M	-	-	-	-	-	-	2	6	17	24	49
		F	-	-	-	-	-	-	-	5	22	43	70
K56	Paralytic ileus and intestinal obstruction without hernia	M	-	-	-	-	-	-	1	4	12	27	44
		F	-	-	-	-	-	-	-	1	13	46	60
K57	Diverticular disease of intestine	M	-	-	-	-	-	-	-	3	4	5	12
		F	-	-	-	-	-	-	-	3	8	22	33
K59	Other functional intestinal disorders	M	-	-	-	-	-	-	-	2	2	3	7
		F	-	-	-	-	-	-	-	1	1	5	7
K63	Other diseases of intestine	M	-	-	-	-	-	-	-	1	6	4	11
		F	-	-	-	-	-	-	-	3	7	12	22
K65	Peritonitis	M	-	-	-	-	-	-	-	2	3	2	7
		F	-	-	-	-	-	-	-	1	1	5	7
K66	Other disorders of peritoneum	M	-	-	-	-	-	-	-	-	2	1	3
		F	-	-	-	-	-	-	-	-	2	1	3
K70	Alcoholic liver disease	M	-	-	-	-	-	-	15	126	46	9	196
		F	-	-	-	-	-	-	9	67	21	4	101
K72	Hepatic failure	M	-	-	1	-	-	-	-	8	16	7	32
		F	-	-	-	-	-	-	1	8	3	5	17
K74	Fibrosis and cirrhosis of liver	M	-	-	-	-	-	-	1	17	15	4	37
		F	-	-	-	-	-	1	-	10	19	12	42
K75	Other inflammatory liver diseases	M	-	-	-	-	-	-	1	-	3	3	7
		F	-	-	-	-	1	-	-	1	5	2	9
K76	Other diseases of liver	M	-	-	-	-	-	-	-	5	5	3	13
		F	-	-	-	-	-	-	1	1	4	1	7
K80	Cholelithiasis	M	-	-	-	-	-	-	1	-	2	2	5
		F	-	-	-	-	-	-	-	1	2	9	12
K81	Cholecystitis	M	-	-	-	-	-	-	-	1	3	7	11
		F	-	-	-	-	-	-	-	1	1	12	14
K83	Other diseases of biliary tract	M	-	-	-	-	-	-	1	-	2	3	6
		F	-	-	-	-	-	-	-	1	2	6	9

Notes are included at end of Appendix 2.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2007

ICD-10	Cause of Death	Gender	Age of Deceased (in Years)										Total
			<1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	
K85	Acute pancreatitis	M	-	-	-	-	-	-	3	8	11	2	24
		F	-	-	-	-	-	-	1	4	7	14	26
K86	Other diseases of pancreas	M	-	-	-	-	-	-	-	1	-	-	1
		F	-	-	-	-	-	-	-	2	1	1	4
K92	Other diseases of digestive system	M	-	-	-	-	-	-	3	6	25	53	87
		F	-	-	-	-	-	-	-	5	11	90	106
L03	Cellulitis	M	-	-	-	-	-	-	-	1	4	2	7
		F	-	-	-	-	-	-	-	-	3	9	12
L08	Other local infections of skin and subcutaneous tissue	M	-	-	-	-	-	-	-	1	-	1	2
		F	-	-	-	-	-	-	-	-	1	2	3
L89	Decubitus ulcer	M	-	-	-	-	-	-	-	-	-	1	1
		F	-	-	-	-	-	-	-	-	2	3	5
L97	Ulcer of lower limb, NEC	M	-	-	-	-	-	-	-	-	1	-	1
		F	-	-	-	-	-	-	-	-	1	6	7
L98	Other disorders of skin and subcutaneous tissue, NEC	M	-	-	-	-	-	-	1	-	-	-	1
		F	-	-	-	-	-	-	-	-	1	5	6
M06	Other rheumatoid arthritis	M	-	-	-	-	-	-	-	-	5	1	6
		F	-	-	-	-	-	-	1	2	7	13	23
M13	Other arthritis	M	-	-	-	-	-	-	-	-	1	3	4
		F	-	-	-	-	-	-	-	-	1	4	5
M19	Other arthrosis	M	-	-	-	-	-	-	-	-	6	4	10
		F	-	-	-	-	-	-	-	-	1	13	14
M31	Other necrotizing vasculopathies	M	-	-	-	-	-	-	-	1	2	1	4
		F	-	-	-	-	-	-	-	-	2	4	6
M32	Systemic lupus erythematosus	M	-	-	-	-	-	-	1	-	3	-	4
		F	-	-	-	-	-	-	3	6	2	1	12
M34	Systemic sclerosis	M	-	-	-	-	-	-	-	1	1	1	3
		F	-	-	-	-	-	-	1	6	7	-	14
M35	Other systemic involvement of connective tissue	M	-	-	-	-	-	-	-	-	1	-	1
		F	-	-	-	-	-	-	-	-	2	2	4
M72	Fibroblastic disorders	M	-	-	-	-	-	-	-	1	1	-	2
		F	-	-	-	-	-	-	1	2	-	-	3
M80	Osteoporosis with pathological fracture	M	-	-	-	-	-	-	-	-	-	2	2
		F	-	-	-	-	-	-	-	-	-	15	15
M81	Osteoporosis without pathological fracture	M	-	-	-	-	-	-	-	-	-	1	1
		F	-	-	-	-	-	-	-	-	3	7	10
M84	Disorders of continuity of bone	M	-	-	-	-	-	-	-	-	1	1	2
		F	-	-	-	-	-	-	-	-	-	3	3
M86	Osteomyelitis	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	-	7	7
N03	Chronic nephritic syndrome	M	-	-	-	-	-	-	-	1	1	3	5
		F	-	-	-	-	-	-	-	1	1	8	10
N04	Nephrotic syndrome	M	-	-	-	-	-	-	-	1	-	-	1
		F	-	-	-	-	-	-	-	1	2	2	5
N05	Unspecified nephritic syndrome	M	-	-	-	-	-	-	-	1	3	-	4
		F	-	-	-	-	-	-	-	-	1	1	2
N12	Tubulo-interstitial nephritis, not specified as acute or chronic	M	-	-	-	-	-	-	-	1	-	1	2
		F	-	-	-	-	-	-	-	-	-	6	6
N13	Obstructive and reflux uropathy	M	-	-	-	-	-	-	-	-	3	1	4
		F	-	-	-	-	-	-	-	1	2	-	3
N17	Acute renal failure	M	-	-	-	-	-	-	-	2	6	13	21
		F	-	-	-	-	-	-	-	-	3	24	27
N18	Chronic renal failure	M	-	-	-	-	-	1	1	6	20	68	96
		F	-	-	-	-	-	-	2	9	10	58	79
N19	Unspecified renal failure	M	-	-	-	-	-	-	1	11	26	81	119
		F	-	-	-	-	-	-	1	2	26	77	106
N28	Other disorders of kidney and ureter, NEC	M	-	-	-	-	-	-	-	2	1	2	5
		F	-	-	-	-	-	-	-	-	1	2	3
N39	Other disorders of urinary system	M	-	-	-	-	-	-	-	2	11	64	77
		F	-	-	-	-	-	-	-	4	21	127	152
N40	Prostatic hypertrophy	M	-	-	-	-	-	-	-	-	2	8	10
		F	-	-	-	-	-	-	-	-	-	-	-

Notes are included at end of Appendix 2.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2007

ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
P01	Fetus and newborn affected by maternal complications of pregnancy	M	6	-	-	-	-	-	-	-	-	-	6
		F	4	-	-	-	-	-	-	-	-	-	4
P02	Fetus and newborn affected by comp. of placenta, cord and membranes	M	6	-	-	-	-	-	-	-	-	-	6
		F	6	-	-	-	-	-	-	-	-	-	6
P07	Disorders related to short gestation and low birth weight, NEC	M	23	-	-	-	-	-	1	-	-	-	24
		F	13	-	-	-	-	-	-	-	-	-	13
P77	Necrotizing enterocolitis of fetus and newborn	M	5	-	-	-	-	-	-	-	-	-	5
		F	1	-	-	-	-	-	-	-	-	-	1
P96	Other conditions originating in the perinatal period	M	3	-	-	-	-	-	-	-	-	-	3
		F	6	-	-	-	-	-	-	-	-	-	6
Q21	Congenital malformations of cardiac septa	M	2	-	-	-	-	-	-	1	-	-	3
		F	1	-	-	-	-	-	1	2	-	1	5
Q24	Other congenital malformations of heart	M	2	1	-	-	-	-	1	1	-	-	5
		F	1	1	-	-	1	-	2	-	1	-	6
Q61	Cystic kidney disease	M	1	-	-	-	-	-	-	2	1	-	4
		F	-	-	-	-	-	-	-	-	1	2	3
Q87	Other specified malformation syndromes affecting multiple systems	M	1	-	-	1	-	1	-	1	-	1	5
		F	-	-	-	-	-	-	-	-	-	1	1
Q90	Down's syndrome	M	-	-	-	-	-	-	-	1	-	-	1
		F	2	-	-	-	-	-	-	3	-	-	5
R53	Malaise and fatigue	M	-	-	-	-	-	-	-	-	-	-	-
		F	-	-	-	-	-	-	-	-	1	6	7
R54	Senility	M	-	-	-	-	-	-	-	-	-	9	9
		F	-	-	-	-	-	-	-	-	3	43	46
R56	Convulsions, NOS	M	-	-	-	-	-	-	3	-	1	-	4
		F	-	-	-	-	-	-	-	1	-	-	1
R68	Other general symptoms and signs	M	-	-	-	-	-	-	-	-	-	2	2
		F	-	-	-	-	-	-	-	-	-	5	5
R95	Sudden infant death syndrome	M	7	-	-	-	-	-	-	-	-	-	7
		F	4	1	-	-	-	-	-	-	-	-	5
R99	Other ill-defined and unspecified causes of mortality	M	16	4	3	6	23	30	176	228	65	24	575
		F	5	5	2	-	11	17	60	97	47	22	266
V03	Pedestrian injured in collision with car, pick-up truck or van	M	-	1	-	-	3	2	2	5	2	7	22
		F	-	-	-	-	-	2	4	1	1	4	12
V04	Pedestrian injured in collision with heavy transport vehicle or bus	M	-	-	-	-	-	-	1	1	2	-	4
		F	-	-	-	-	-	-	2	1	-	-	3
V09	Pedestrian injured in other and unspecified transport accident	M	-	-	-	-	1	-	3	1	-	2	7
		F	-	-	-	1	-	-	-	1	-	1	3
V13	Pedal cyclist injured in collision with car, pick-up truck or van	M	-	-	-	-	1	2	1	1	-	1	6
		F	-	-	-	-	-	-	1	-	-	-	1
V23	Motorcycle rider injured in collision with car, pick-up truck or van	M	-	-	-	-	-	4	3	2	-	-	9
		F	-	-	-	-	-	-	-	-	-	-	-
V27	Motorcycle rider injured in collision with fixed or stationary object	M	-	-	-	-	1	2	3	3	-	-	9
		F	-	-	-	-	-	-	-	1	-	-	1
V28	Motorcycle rider injured in noncollision transport accident	M	-	-	-	-	-	-	3	2	-	-	5
		F	-	-	-	-	-	-	-	-	-	-	-
V43	Car occupant injured in collision with car, pick-up truck or van	M	-	-	-	-	4	4	6	8	4	1	27
		F	-	-	-	-	4	-	2	6	2	2	16
V44	Car occupant injured in collision with heavy transport vehicle or bus	M	-	-	-	1	1	2	3	3	-	-	10
		F	-	-	-	1	2	1	-	2	1	-	7
V47	Car occupant injured in collision with fixed or stationary object	M	-	-	-	-	1	5	5	2	1	1	15
		F	-	-	-	-	-	1	3	-	-	-	4
V48	Car occupant injured in noncollision transport	M	-	-	-	-	1	2	7	7	-	1	18
		F	-	-	-	1	3	1	3	4	-	-	12
V49	Car occupant injured in other and unspecified transport accidents	M	-	-	-	-	2	-	4	1	-	1	8
		F	-	-	-	-	-	-	1	2	-	-	3
V53	Occupant of pick-up truck or van inj. in collision with car, pick-up truck or van	M	-	-	-	-	-	-	1	1	1	-	3
		F	-	-	-	-	-	-	-	1	-	2	3
V54	Occupant of pick-up truck or van inj. in coll. with heavy trans. vehicle or bus	M	-	-	-	1	1	1	3	2	-	-	8
		F	-	-	-	-	-	-	1	1	-	-	2
V57	Occupant of pick-up truck or van inj. in collision with fixed or stationary object	M	-	-	-	-	3	1	2	1	-	-	7
		F	-	-	-	-	-	-	1	-	-	-	1

Notes are included at end of Appendix 2.

APPENDIX 2 – *continued*

DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2007

ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
V58	Occupant of pick-up truck or van inj. in noncollision transport accident	M	-	-	-	-	-	4	8	3	-	1	16
		F	-	-	-	-	-	1	-	1	1	-	3
V86	Occupant of special A.T./other m.v. for off-road use, inj. in transport accident	M	-	-	-	-	1	1	1	1	-	-	4
		F	-	-	-	-	-	-	-	1	-	-	1
V89	Motor or nonmotor vehicle, type of vehicle unspecified	M	-	-	-	-	3	1	-	-	-	-	4
		F	-	-	-	-	2	1	-	-	-	-	3
V90	Accident to watercraft causing drowning and submersion	M	-	-	-	-	-	-	4	-	1	-	5
		F	-	-	-	-	-	-	-	-	-	-	-
W01	Fall on same level from slipping, tripping and stumbling	M	-	-	-	-	-	-	-	-	2	3	5
		F	-	-	-	-	-	-	-	-	2	1	3
W05	Fall involving wheelchair	M	-	-	-	-	-	-	-	-	2	2	4
		F	-	-	-	-	-	-	-	-	1	3	4
W06	Fall involving bed	M	-	-	-	-	-	-	-	-	-	5	5
		F	-	-	-	-	-	-	-	1	-	5	6
W10	Fall on and from stairs and steps	M	-	-	-	-	-	-	-	3	6	6	15
		F	-	-	-	-	-	-	-	-	1	7	8
W11	Fall on and from ladder	M	-	-	-	-	-	-	-	3	-	3	6
		F	-	-	-	-	-	-	-	-	1	-	1
W15	Fall from cliff	M	-	-	-	-	1	-	-	1	-	-	2
		F	-	-	-	1	-	-	1	1	-	-	3
W17	Other fall from one level to another	M	-	-	-	-	-	-	-	3	1	2	6
		F	-	-	-	1	-	-	-	-	-	1	2
W18	Other fall on same level	M	-	-	-	-	-	-	-	-	2	14	16
		F	-	-	-	-	-	-	-	3	2	11	16
W19	Unspecified fall	M	-	-	-	-	-	-	-	5	19	60	84
		F	-	-	-	-	-	-	-	-	19	95	114
W69	Drowning and submersion while in natural water	M	-	-	-	-	-	2	5	2	1	-	10
		F	-	-	-	-	-	-	-	-	-	-	-
W70	Drowning and submersion following fall into natural water	M	-	-	-	-	-	-	-	3	2	1	6
		F	-	-	-	-	-	-	-	1	-	-	1
W76	Other al hanging and strangulation	M	-	-	-	-	-	1	1	3	-	-	5
		F	-	-	-	-	-	-	-	-	-	-	-
W79	Inhalation and ingestion of food causing obstruction of respiratory tract	M	-	-	-	-	-	-	1	1	2	-	4
		F	-	-	-	-	-	-	-	1	2	-	3
W80	Inhalation and ingestion of other objects causing obstruction of respiratory tract	M	-	-	-	-	-	-	-	3	5	11	19
		F	-	-	-	-	-	-	1	1	4	5	11
W83	Other specified threats to breathing	M	-	-	-	-	-	1	3	1	-	-	5
		F	-	-	-	-	-	-	-	-	-	-	-
X00	Exposure to uncontrolled fire in building or structure	M	-	-	-	-	-	1	4	6	1	3	15
		F	-	-	-	-	-	-	3	2	-	1	6
X31	Exposure to excessive natural cold	M	-	-	-	-	-	1	1	1	-	-	3
		F	-	-	-	-	-	-	-	2	2	-	4
X40	Acc. poisoning by & exp. to nonopioid. analgesics, antipyretics and antirheum	M	-	-	-	-	-	-	3	3	1	-	7
		F	-	-	-	-	-	-	-	1	-	-	1
X41	Acc. pois. by & exp. to antiepileptic, sed.-hypn., antipark. & psych. drugs, NEC	M	-	-	-	-	-	-	7	4	-	1	12
		F	-	-	-	-	1	-	1	11	-	-	13
X42	Acc. pois. by & exp. to narcotics & psychodysleptics [hallucin.], NEC	M	-	-	-	-	1	5	51	35	3	-	95
		F	-	-	-	-	-	2	17	9	-	1	29
X44	Acc. pois. by & exp. to other & unspec. drugs, medicaments and biolo. sub.	M	-	-	-	-	-	1	15	22	-	1	39
		F	-	-	-	-	-	3	6	13	4	1	27
X45	Accidental poisoning by and exposure to alcohol	M	-	-	-	-	1	-	3	10	1	-	15
		F	-	-	-	-	-	-	2	4	2	1	9
X47	Acc. poisoning by and exposure to other gases and vapours	M	-	-	-	-	-	-	-	4	2	-	6
		F	-	-	-	-	-	-	1	1	-	-	2
X59	Exposure to unspecified factor	M	-	-	-	-	-	-	-	2	5	12	19
		F	-	-	-	-	-	-	-	1	2	9	12
X60	Suicide by nonopioid analgesics, antipyretics and antirheumatics	M	-	-	-	-	-	-	-	1	-	-	1
		F	-	-	-	-	-	-	1	3	-	-	4
X61	Suicide by antiepileptic, sed-hypno, antipark. & psychotropic drugs, NEC	M	-	-	-	-	-	-	3	7	1	-	11
		F	-	-	-	-	-	2	3	8	1	-	14
X62	Suicide by narcotics & psychodysleptics [hallucinogens], NEC	M	-	-	-	-	-	2	1	3	-	-	6
		F	-	-	-	-	-	-	-	3	-	-	3

Notes are included at end of Appendix 2.

APPENDIX 2 – *continued*

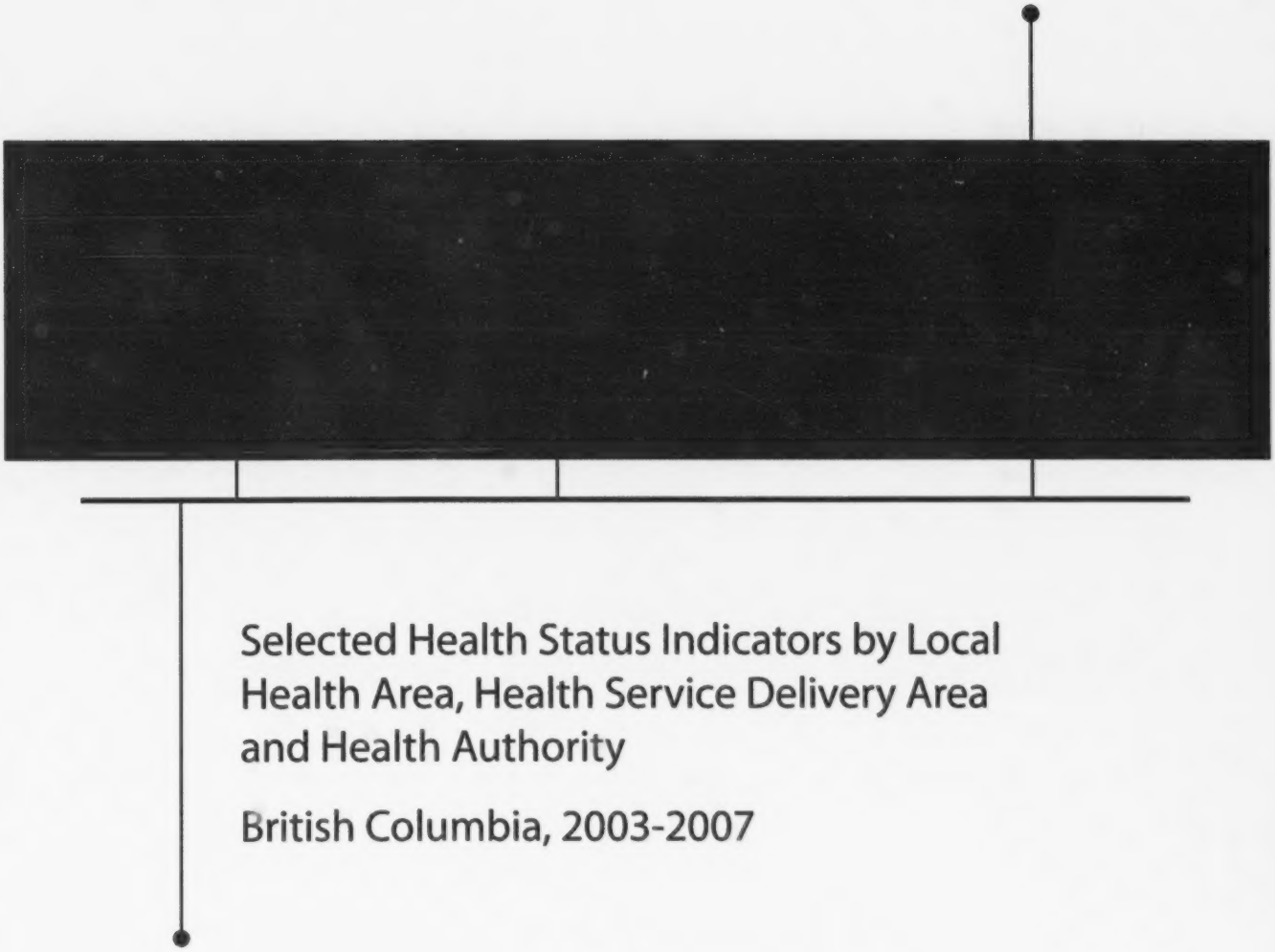
DETAILED CAUSE OF DEATH BY GENDER AND AGE

BRITISH COLUMBIA, 2007

ICD-10	Cause of Death	Gender	Age of Deceased (in Years) <1	1–4	5–9	10–14	15–19	20–24	25–44	45–64	65–79	80+	Total
X64	Suicide by other and unspecified drugs, medicaments and biological substances	M	-	-	-	-	-	-	3	6	1	-	10
		F	-	-	-	-	-	-	10	11	-	2	23
X67	Suicide by other gases and vapours	M	-	-	-	-	-	2	12	14	-	-	28
		F	-	-	-	-	-	-	1	1	-	-	2
X70	Suicide by hanging, strangulation and suffocation	M	-	-	-	1	3	14	37	39	11	3	108
		F	-	-	-	1	4	1	12	6	1	2	27
X71	Suicide by drowning and submersion	M	-	-	-	-	-	-	6	5	1	2	14
		F	-	-	-	-	-	-	-	3	1	-	4
X73	Suicide by rifle, shotgun and larger firearm discharge	M	-	-	-	-	-	-	5	6	2	2	15
		F	-	-	-	-	-	-	-	-	-	-	-
X74	Suicide by other and unspecified firearm discharge	M	-	-	-	-	2	4	6	19	7	3	41
		F	-	-	-	-	-	-	-	3	-	-	3
X78	Suicide by sharp object	M	-	-	-	-	1	-	3	4	-	-	8
		F	-	-	-	-	-	-	1	1	1	-	3
X80	Suicide by jumping from a high place	M	-	-	-	-	-	4	9	6	4	1	24
		F	-	-	-	-	-	-	6	5	1	-	12
X81	Suicide by jumping or lying before moving object	M	-	-	-	-	-	2	-	4	1	-	7
		F	-	-	-	-	-	1	2	-	1	-	4
X95	Assault by other and unspecified firearm discharge	M	-	-	-	-	-	-	7	-	-	-	7
		F	-	-	-	-	-	-	-	1	-	-	1
X99	Assault by sharp object	M	-	-	1	-	-	1	2	-	-	-	4
		F	-	-	-	-	-	-	2	1	-	-	3
Y14	Pois. by other & unspec. drugs, medic. and biol. subst., undetermined intent	M	-	-	-	-	-	-	-	2	-	-	2
		F	-	-	-	-	-	-	-	1	1	1	3
Y83	Surg. oper and othr. surg. proc. causing abno. react. or later compl., w/o misadv.	M	-	-	-	-	1	-	-	2	2	-	5
		F	-	-	-	-	-	-	1	1	4	3	9
Y85	Sequelae of transport accidents	M	-	-	-	-	-	-	3	3	1	-	7
		F	-	-	-	-	-	-	-	-	1	1	2
Y86	Sequelae of other accidents	M	-	-	-	-	-	-	2	6	4	1	13
		F	-	-	-	-	-	-	-	1	-	-	1
	All Causes of Death	M	107	12	9	18	76	135	746	3,164	5,189	6,549	16,005
		F	65	12	12	14	41	44	402	1,957	3,548	9,005	15,100

Note: The output from ICD-10 mortality coding and underlying cause of death selection was modified in BC to reflect the intent of certifiers in this jurisdiction and to provide greater continuity over time. Data using the standard ICD-10 rules for such categories as pneumonia/influenza, diabetes, or cancer should not be compared to the numbers shown above.
Non-residents and unknown gender are excluded.

Appendix Three



Selected Health Status Indicators by Local Health Area, Health Service Delivery Area and Health Authority

British Columbia, 2003-2007

Preamble to Appendix 3

This appendix consists of six tables:

Table A Summary Statistics by Local Health Area

Table B Mortality Statistics by Local Health Area

Table C Summary Statistics by Health Service Delivery Area

Table D Mortality Statistics by Health Service Delivery Area

Table E Summary Statistics by Health Authority

Table F Mortality Statistics by Health Authority

Assignment of events to geographic areas was based on the usual residence of the mother for live births and stillbirths, and the usual residence of the decedent for deaths.

Tables A, C and E provide population estimates for the current year, and counts and rates for the five-year period ending with the current year for live births, stillbirths, deaths, infant deaths, low birth weight live births, cesarean live birth deliveries, pre-term live births, live births to teenage mothers, and live births to elderly gravida (mothers aged 35 or older).

Tables B, D and E provide the SMR with statistical significance, number of deaths (in the column labeled Death), trends in ASMR based on three-year moving averages from 1986 to the current year (in the column labeled TR), PYLLIndex with statistical significance, and the number of deaths under age 75 (in the column labeled D <75). ICD-10 codes for the causes of death in these tables are listed below.

Category	Cause of Death	ICD-10 Codes
01	All causes of death	A00-Y89
02	Malignant neoplasms	C00-C97
03	Malignant neoplasm of lung	C34
04	Endocrine nutritional and metabolic diseases	E00-E89
05	Diabetes mellitus	E10-E14
06	Diseases of the circulatory system	I00-I99
07	Ischemic heart diseases	I20-I25
08	Cerebrovascular diseases	I60-I69
09	Diseases of arteries, arterioles and capillaries	I70-I78
10	Diseases of the respiratory system	J00-J98
11	Influenza and pneumonia	J10-J18
12	Chronic Pulmonary Disease	J40-J44
13	Diseases of the digestive system	K00-K92
14	Motor vehicle accidents	V02-V04, V09, V12-V14, V190-V196, V20-V79, V803-V805, V820-V821, V823-V890, V892, V899, Y850
15	Unintentional falls	W00-W19
16	Suicide	X60-X84, Y870
17	Alcohol-related deaths	see Glossary
18	Medically treatable diseases	see Glossary
19	Drug-induced deaths	see Glossary

Note: Some cause of death categories are different from those used previously, so readers should avoid comparisons with tables in earlier publications.

Table A

SUMMARY STATISTICS BY LOCAL HEALTH AREA, BRITISH COLUMBIA, 2003-2007

	Local Health Area	2007 Population	Live Birth		Stillbirth		Death		Infant Death	
			Total	Rate	Total	Rate[2]	Total	Rate	Total	Rate[1]
001	Fernie	14,783	638	8.54	4	6.25	403	5.41	2	3.14
002	Cranbrook	25,657	1,138	8.94	10	8.71	1,027	8.07	4	3.51
003	Kimberley	8,437	314	7.53	-	-	378	9.07	1	3.18
004	Windermere	9,992	374	7.92	4	10.58	235	4.98	2	5.35
005	Creston	12,786	570	9.12	-	-	666	10.66	-	-
006	Kootenay Lake	3,936	167	8.76	1	5.95	157	8.23	1	5.99
007	Nelson	25,056	1,115	9.00	11	9.77	982	7.93	3	2.69
009	Castlegar	13,329	455	6.97	4	8.71	617	9.45	1	2.20
010	Arrow Lakes	4,855	169	6.91	-	-	240	9.81	-	-
011	Trail	19,921	707	7.12	4	5.63	1,100	11.07	4	5.66
012	Grand Forks	9,269	334	7.33	2	5.95	493	10.82	5	14.97
013	Kettle Valley	3,735	131	7.12	1	7.58	118	6.42	-	-
014	Southern Okanagan	19,962	610	6.34	4	6.51	1,274	13.24	1	1.64
015	Penticton	42,475	1,491	7.26	13	8.64	2,563	12.47	7	4.69
016	Keremeos	5,251	187	7.38	1	5.32	333	13.14	-	-
017	Princeton	5,174	126	4.96	-	-	272	10.70	-	-
018	Golden	7,359	323	8.96	-	-	184	5.11	2	6.19
019	Revelstoke	8,282	372	8.99	1	2.68	268	6.47	4	10.75
020	Salmon Arm	34,659	1,216	7.33	7	5.72	1,598	9.63	11	9.05
021	Armstrong-Spallumcheen	9,811	401	8.16	2	4.96	378	7.69	-	-
022	Vernon	65,342	2,598	8.29	23	8.78	3,034	9.69	13	5.00
023	Central Okanagan	177,237	7,100	8.51	60	8.38	7,180	8.61	29	4.08
024	Kamloops	109,303	4,643	8.74	28	5.99	4,018	7.57	15	3.23
025	100 Mile House	14,864	490	6.59	4	8.10	601	8.08	1	2.04
026	North Thompson	4,450	220	10.13	1	4.52	158	7.27	1	4.55
027	Cariboo-Chilcotin	26,888	1,437	10.65	20	13.73	856	6.35	10	6.96
028	Quesnel	23,795	1,181	9.87	13	10.89	831	6.95	8	6.77
029	Lillooet	4,510	254	11.24	2	7.81	195	8.63	1	3.94
030	South Cariboo	7,512	299	8.06	4	13.20	360	9.70	3	10.03
031	Merritt	11,656	574	10.00	3	5.20	504	8.78	-	-
032	Hope	8,320	362	8.66	5	13.62	500	11.96	2	5.52
033	Chilliwack	83,291	4,684	11.85	36	7.63	3,311	8.38	18	3.84
034	Abbotsford	132,629	8,266	12.80	74	8.87	4,514	6.99	32	3.87
035	Langley	125,029	6,293	10.42	38	6.00	4,202	6.96	20	3.18
037	Delta	102,102	4,667	9.15	33	7.02	3,026	5.93	13	2.79
038	Richmond	186,628	7,933	8.77	65	8.13	4,394	4.86	25	3.15
040	New Westminster	62,607	3,253	10.70	27	8.23	2,484	8.17	10	3.07
041	Burnaby	216,336	10,677	10.14	75	6.98	6,871	6.53	26	2.44
042	Maple Ridge	90,412	4,549	10.46	33	7.20	2,720	6.26	13	2.86
043	Coquitlam	209,376	10,272	9.96	69	6.67	4,717	4.58	42	4.09
044	North Vancouver	136,281	6,224	9.22	42	6.70	4,087	6.05	15	2.41
045	West Vancouver-Bowen Is.	51,674	1,512	5.91	6	3.95	2,342	9.15	4	2.65
046	Sunshine Coast	29,864	924	6.48	6	6.45	1,337	9.38	4	4.33
047	Powell River	20,380	666	6.62	5	7.45	966	9.61	2	3.00
048	Howe Sound	33,162	2,058	12.86	16	7.71	578	3.61	14	6.80
049	Bella Coola Valley	3,007	242	15.47	8	32.00	97	6.20	3	12.40
050	Queen Charlotte	5,037	265	10.63	2	7.49	142	5.70	2	7.55
051	Snow Country	564	29	9.39	-	-	17	5.50	1	34.48
052	Prince Rupert	14,781	891	11.85	5	5.58	427	5.58	3	3.37
053	Upper Skeena	5,574	338	11.93	2	5.88	124	4.38	2	5.92
054	Smithers	16,326	1,107	13.24	11	9.84	431	5.16	6	5.42
055	Burns Lake	8,059	443	11.10	5	11.16	271	6.79	3	6.77
056	Nechako	15,353	1,084	13.63	9	8.23	509	6.40	5	4.61
057	Prince George	98,010	5,303	10.80	44	8.23	2,662	5.42	24	4.53
059	Peace River South	27,565	1,470	10.94	8	5.41	827	6.15	3	2.04
060	Peace River North	34,377	2,696	16.35	22	8.09	727	4.41	14	5.19
061	Greater Victoria	222,206	8,879	8.14	61	6.82	10,638	9.76	37	4.17
062	Sooke	63,664	3,026	10.09	14	4.61	1,608	5.36	14	4.63
063	Saanich	64,923	2,000	6.24	13	6.46	3,142	9.80	14	7.00
064	Gulf Islands	15,472	424	5.63	1	2.35	674	8.96	3	7.08
065	Cowichan	57,004	2,517	9.11	28	11.00	2,259	8.17	16	6.36
066	Lake Cowichan	6,452	208	6.63	-	-	220	7.02	2	9.62
067	Ladysmith	18,556	749	8.45	6	7.95	971	10.95	7	9.35
068	Nanaimo	102,270	4,209	8.50	30	7.08	4,377	8.83	22	5.23
069	Qualicum	45,808	1,191	5.46	8	6.67	2,387	10.95	2	1.68
070	Alberni	32,281	1,556	9.75	22	13.94	1,399	8.77	14	9.00
071	Courtenay	64,065	2,355	7.69	17	7.17	2,475	8.08	8	3.40
072	Campbell River	42,047	1,808	8.83	12	6.59	1,427	6.97	12	6.64
075	Mission	41,744	2,176	10.84	17	7.75	1,357	6.76	7	3.22
076	Agassiz-Harrison	8,530	473	11.27	2	4.21	297	7.07	2	4.23
077	Summerland	12,013	364	6.17	1	2.74	683	11.57	1	2.75
078	Enderby	7,937	330	8.69	3	9.01	375	9.87	1	3.03
080	Kitimat	10,414	439	8.01	4	9.03	273	4.98	2	4.56
081	Fort Nelson	6,433	514	15.96	2	3.88	84	2.61	-	-
083	Central Coast	1,505	144	18.33	-	-	68	8.66	3	20.83
084	Vancouver Island West	2,422	111	9.14	-	-	48	3.95	1	9.01
085	Vancouver Island North	12,456	768	11.98	5	6.47	387	6.03	6	7.81
087	Stikine	1,019	25	4.62	-	-	22	4.06	-	-
088	Terrace	20,627	1,222	11.73	10	8.12	591	5.67	6	4.91
092	Nisga'a	2,010	149	14.70	-	-	69	6.81	1	6.71
094	Telegraph Creek	707	45	13.06	2	42.55	18	5.22	1	22.22
161	Vancouver City Centre	111,355	4,242	8.09	42	9.80	3,170	6.05	9	2.12
162	Van. Downtown E.Side	57,702	2,323	8.37	24	10.23	2,564	9.24	12	5.17
163	Vancouver North East	103,779	5,493	10.82	47	8.48	2,892	5.70	29	5.28
164	Vancouver West Side	132,100	5,644	8.70	42	7.39	3,703	5.71	23	4.08
165	Vancouver Midtown	85,903	5,013	11.73	50	9.88	2,368	5.54	28	5.59
166	Vancouver South	133,827	6,529	9.80	58	8.81	4,108	6.17	30	4.59
201	Surrey	362,786	22,950	13.28	179	7.74	8,221	4.76	101	4.40
202	South Surrey/White Rock	83,207	2,644	6.62	14	5.27	4,323	10.82	3	1.13
	PROVINCIAL TOTAL	4,380,256	206,488	9.691,692	7.65	180,610	7.06	862	4.13	

Please refer to footnotes on Table E

Table A

SUMMARY STATISTICS BY LOCAL HEALTH AREA, BRITISH COLUMBIA, 2003-2007

		Low Birth Wt. Live Birth		Cesarean		Pre-term		Teenage Mother		Elderly Gravida	
	Local Health Area	Total	Rate[1]	Total	Rate[1]	Total	Rate[1]	Total	Rate[1]	Total	Rate[1]
001	Fernie	25	39.31	221	347.48	36	56.60	31	48.74	93	146.23
002	Cranbrook	56	49.21	380	333.92	80	70.30	78	68.54	152	133.57
003	Kimberley	20	63.69	95	302.55	24	76.43	13	41.40	64	203.82
004	Windermere	17	45.45	113	302.14	18	48.13	18	48.13	46	122.99
005	Creston	32	56.14	117	205.26	39	68.42	62	108.77	56	98.25
006	Kootenay Lake	6	35.93	27	161.68	4	23.95	5	29.94	28	167.66
007	Nelson	53	47.53	227	203.59	62	55.61	29	26.01	210	188.34
009	Castlegar	18	39.56	125	274.73	27	59.34	7	15.38	74	162.64
010	Arrow Lakes	8	47.34	47	278.11	12	71.01	4	23.67	27	159.76
011	Trail	49	69.31	178	251.77	71	100.42	35	49.50	122	172.56
012	Grand Forks	16	47.90	89	266.47	22	65.87	23	68.86	65	194.61
013	Kettle Valley	1	7.63	22	167.94	4	30.53	5	38.17	8	61.07
014	Southern Okanagan	37	60.66	154	252.46	44	72.13	34	55.74	96	157.38
015	Penticton	72	48.29	384	257.55	128	85.85	79	52.98	207	138.83
016	Keremeos	6	32.09	50	267.38	13	69.52	12	64.17	29	155.08
017	Princeton	14	111.11	25	198.41	19	150.79	15	119.05	17	134.92
018	Golden	9	27.86	100	309.60	16	49.54	9	27.86	55	170.28
019	Revelstoke	17	45.70	113	303.76	26	69.89	16	43.01	62	166.67
020	Salmon Arm	63	51.81	441	362.66	96	78.95	56	46.05	191	157.07
021	Armstrong-Spallumcheen	18	44.89	144	359.10	24	59.85	11	27.43	49	122.19
022	Vernon	161	61.97	822	316.40	200	76.98	120	46.19	403	155.12
023	Central Okanagan	366	51.55	2,133	300.42	550	77.46	256	36.06	1,252	176.34
024	Kamloops	289	62.24	1,603	345.25	377	81.20	204	43.94	700	150.76
025	100 Mile House	24	48.98	137	279.59	33	67.35	33	67.35	57	116.33
026	North Thompson	12	54.55	57	259.09	10	45.45	15	68.18	27	122.73
027	Cariboo-Chilcotin	80	55.67	478	332.64	138	96.03	118	82.12	147	102.30
028	Quesnel	68	57.58	313	265.03	84	71.13	101	85.52	123	104.15
029	Lillooet	12	47.24	82	322.83	20	78.74	24	94.49	23	90.55
030	South Cariboo	21	70.23	68	227.42	29	96.99	38	127.09	31	103.68
031	Merritt	26	45.30	160	278.75	45	78.40	48	83.62	75	130.66
032	Hope	18	49.72	96	265.19	39	107.73	41	113.26	44	121.55
033	Chilliwack	215	45.90	1,334	284.80	341	72.80	285	60.85	604	128.95
034	Abbotsford	407	49.24	2,215	267.97	536	64.84	270	32.66	981	118.68
035	Langley	324	51.49	1,765	280.47	441	70.08	147	23.36	1,219	193.71
037	Delta	247	52.92	1,556	333.40	327	70.07	61	13.07	1,190	254.98
038	Richmond	442	55.72	2,453	309.21	536	67.57	73	9.20	2,336	294.47
040	New Westminster	216	66.40	932	286.50	264	81.16	74	22.75	847	260.38
041	Burnaby	634	59.38	3,130	293.15	818	76.61	157	14.70	2,999	280.88
042	Maple Ridge	270	59.35	1,402	308.20	352	77.38	121	26.60	924	203.12
043	Coquitlam	605	58.90	3,244	315.81	792	77.10	151	14.70	2,831	275.60
044	North Vancouver	323	51.90	1,921	308.64	455	73.10	59	9.48	2,265	363.91
045	West Vancouver-Bowen Is.	74	48.94	480	317.46	108	71.43	26	17.20	671	443.78
046	Sunshine Coast	33	35.71	228	246.75	63	68.18	36	38.96	212	229.44
047	Powell River	32	48.05	207	310.81	42	63.06	41	61.56	109	163.66
048	Howe Sound	105	51.02	693	336.73	160	77.75	58	28.18	574	278.91
049	Bella Coola Valley	16	66.12	51	210.74	22	90.91	44	181.82	33	136.36
050	Queen Charlotte	16	60.38	77	290.57	30	113.21	19	71.70	42	158.49
051	Snow Country	2	68.97	9	310.34	1	34.48	2	68.97	6	206.90
052	Prince Rupert	37	41.53	246	276.09	86	96.52	118	132.44	124	139.17
053	Upper Skeena	13	38.46	80	236.69	27	79.88	38	112.43	51	150.89
054	Smithers	51	46.07	329	297.20	79	71.36	73	65.94	159	143.63
055	Burns Lake	16	36.12	105	237.02	24	54.18	33	74.49	54	121.90
056	Nechako	51	47.05	292	269.37	62	57.20	87	80.26	106	97.79
057	Prince George	294	55.44	1,527	287.95	375	70.71	326	61.47	693	130.68
059	Peace River South	52	35.37	330	224.49	51	34.69	125	85.03	142	96.60
060	Peace River North	115	42.66	734	272.26	121	44.88	203	75.30	255	94.58
061	Greater Victoria	475	53.50	3,106	349.81	691	77.82	254	28.61	2,163	243.61
062	Sooke	165	54.53	1,083	357.90	259	85.59	94	31.06	579	191.34
063	Saanich	105	52.50	609	304.50	174	87.00	83	41.50	469	234.50
064	Gulf Islands	14	33.02	99	233.49	22	51.89	11	25.94	112	264.15
065	Cowichan	164	65.16	657	261.03	247	98.13	179	71.12	394	156.54
066	Lake Cowichan	14	67.31	66	317.31	23	110.58	13	62.50	21	100.96
067	Ladysmith	47	62.75	206	275.03	89	118.83	54	72.10	104	138.85
068	Nanaimo	213	50.61	1,224	290.81	339	80.54	230	54.64	648	153.96
069	Qualicum	65	54.58	354	297.23	93	78.09	42	35.26	229	192.28
070	Alberni	75	48.20	422	271.21	127	81.62	159	102.19	210	134.96
071	Courtenay	125	53.08	593	251.80	170	72.19	138	58.60	443	188.11
072	Campbell River	98	54.20	617	341.26	119	65.82	132	73.01	215	118.92
075	Mission	114	52.39	599	275.28	171	78.58	117	53.77	298	136.95
076	Agassiz-Harrison	32	67.65	122	257.93	52	109.94	43	90.91	65	137.42
077	Summerland	14	38.46	110	302.20	24	65.93	18	49.45	76	208.79
078	Enderby	13	39.39	88	266.67	27	81.82	28	84.85	46	139.39
080	Kitimat	16	36.45	172	391.80	24	54.67	32	72.89	62	141.23
081	Fort Nelson	15	29.18	185	359.92	26	50.58	49	95.33	51	99.22
083	Central Coast	7	48.61	30	208.33	18	125.00	20	138.89	8	55.56
084	Vancouver Island West	4	36.04	29	261.26	13	117.12	16	144.14	9	81.08
085	Vancouver Island North	42	54.69	177	230.47	65	84.64	87	113.28	98	127.60
087	Stikine	2	80.00	4	160.00	3	120.00	2	80.00	-	0.00
088	Terrace	50	40.92	300	245.50	90	73.65	116	94.93	135	110.47
092	Nisga'a	5	33.56	32	214.77	14	93.96	30	201.34	12	80.54
094	Telegraph Creek	1	22.22	6	133.33	2	44.44	3	66.67	12	266.67
161	Vancouver City Centre	221	52.10	1,273	300.09	298	70.25	19	4.48	1,395	328.85
162	Van. Downtown E.Side	160	68.88	594	255.70	232	99.87	79	34.01	711	306.07
163	Vancouver North East	382	65.90	1,548	281.81	447	81.38	87	15.84	1,604	292.01
164	Vancouver West Side	283	50.14	1,690	299.43	401	71.05	22	3.90	2,465	436.75
165	Vancouver Midtown	310	61.84	1,412	281.67	396	78.99	64	12.77	1,652	329.54
166	Vancouver South	448	68.62	1,877	287.49	523	80.10	101	15.47	1,899	290.86
201	Surrey	1,469	64.01	7,119	310.20	1,697	73.94	594	25.88	3,768	164.18
202	South Surrey/White Rock	144	54.46	879	332.45	207	78.29	26	9.83	798	301.82
	PROVINCIAL TOTAL	**11,489**	**55.64**	**61,654**	**298.58**	**15,506**	**75.09**	**7,120**	**34.48**	**44,733**	**216.64**

Please refer to footnotes on Table E

Table B

MORTALITY STATISTICS BY LOCAL HEALTH AREA, BRITISH COLUMBIA, 2003-2007

		01 All Causes of Death						02 All Cancer Sites						03 Lung Cancer						04 End/Nut/Met. Diseases					
	Local Health Area	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75
001	Fernie	0.98		403	↘	0.95	186	1.02		124		0.96	71	1.14		36		0.97	20	0.88		15		0.22	* 4
002	Cranbrook	1.15	*	1,027		1.11	417	1.11		288		1.17	175	1.18		80		1.11	48	1.40	*	53		1.41	23
003	Kimberley	0.96		378	↘	0.98	137	0.99		109		1.13	57	.97		28		1.43	16	0.72		12		0.60	5
004	Windermere	0.75	*	235		0.71	* 104	0.82		79		0.66	* 39	0.97		25		0.42	* 11	0.37	*	5		0.46	2
005	Creston	0.97		666	↘	1.04	237	0.93		182		1.00	96	0.81		42		0.94	26	1.05		31	↗	1.21	12
006	Kootenay Lake	1.00		157		1.22	79	1.41	*	66		1.51	39	1.27		16		1.88	11	0.30		2		-	-
007	Nelson	1.10	*	982	↘	1.02	378	1.10		276		1.09	151	1.05		68		0.98	42	1.18		44		1.01	17
009	Castlegar	1.18	*	617		1.23	* 241	1.04		152		1.00	81	1.17		45		1.29	27	1.55	*	34	↗	1.27	14
010	Arrow Lakes	1.07		240	↘	1.25	96	1.23		80		1.26	45	1.39		24		1.95	19	1.15		11	↗	1.02	4
011	Trail	1.19	*	1,100	↘	1.37	* 397	1.09		273	↘	1.04	128	0.83		54	↘	0.85	29	1.52	*	59		1.65	25
012	Grand Forks	1.08		493	↘	1.24	199	0.89		120		1.09	74	0.81		29		1.17	23	0.75		15		0.97	5
013	Kettle Valley	0.79	*	118	↘	0.74	* 57	0.72		34		0.70	21	0.47		6		0.57	5	0.46		3	↘	0.29	* 2
014	Southern Okanagan	1.01		1,274	↘	1.22	* 415	1.10		395		1.06	167	1.10		106		1.10	50	1.36	*	75	↗	1.41	21
015	Penticton	1.02		2,563		1.26	* 738	1.06		705		1.08	287	1.20	*	206		1.16	96	0.90		96	↗	1.28	27
016	Keremeos	1.14	*	333		1.62	* 143	1.18		102		1.16	54	1.58	*	37		1.79	19	0.86		11		0.79	3
017	Princeton	1.11		272	↘	1.43	* 136	1.18		90		1.38	63	1.73	*	36		1.94	25	0.83		9		1.51	4
018	Golden	1.06		184		0.98	87	1.01		53		1.00	31	1.15		16		1.13	12	1.52		11	↗	0.58	2
019	Revelstoke	1.06		268	↘	1.07	121	1.01		73		0.83	37	1.20		23		1.24	14	1.83	*	19		1.84	10
020	Salmon Arm	1.01		1,598		1.37	* 646	1.01		464		1.20	* 258	1.03		126		1.14	74	0.97		66		0.99	20
021	Armstrong-Spallumcheen	0.96		378	↘	1.06	147	0.94		107	↘	0.92	52	0.90		27		1.08	16	0.78		13		0.52	4
022	Vernon	1.09	*	3,034	↘	1.20	* 1,101	1.09	*	854		1.12	425	1.15	*	237		1.21	136	1.16		138	↗	1.60	46
023	Central Okanagan	0.98		7,180	↘	1.00	2,364	0.97		1,977	↘	0.98	928	1.00		535		1.13	290	0.86	*	268	↗	0.84	89
024	Kamloops	1.14	*	4,018	↘	1.16	* 1,761	1.09	*	1,147		1.03	619	1.23	*	347		1.14	193	1.35	*	203	↗	1.22	79
025	100 Mile House	1.09	*	601		1.27	* 309	0.99		174		1.16	115	0.94		45		0.87	22	0.50	*	12		0.70	6
026	North Thompson	1.27	*	158		1.45	* 81	1.16		46		1.03	30	1.39		15		1.82	12	1.12		6		1.14	3
027	Cariboo-Chilcotin	1.25	*	856		1.40	* 462	1.01		212		0.95	139	1.10		62		1.24	47	2.05	*	59	↗	1.33	22
028	Quesnel	1.17	*	831		1.20	* 406	1.26	*	270		1.20	161	1.49	*	85		1.26	51	1.48	*	44	↗	1.31	21
029	Lillooet	1.45	*	195		1.59	* 104	1.35	*	55		1.54	37	1.93	*	21		1.69	13	1.05		6		0.14	* 2
030	South Cariboo	1.25	*	360	↘	1.63	* 198	1.02		90		0.91	60	1.33		32		1.14	21	1.60		20	↗	1.76	12
031	Merritt	1.37	*	504		1.60	* 261	1.20	*	132		1.20	80	0.96		28		1.02	18	1.28		20		1.37	11
032	Hope	1.41	*	500		1.79	* 245	1.40	*	146		1.59	* 93	1.85	*	52		1.66	35	2.29	*	35	↗	3.17	* 16
033	Chilliwack	1.10	*	3,311	↘	1.17	* 1,273	1.13	*	954		1.23	* 506	1.16	*	259		1.39	* 159	1.02		131		1.14	56
034	Abbotsford	1.01		4,514	↘	1.04	1,600	1.00		1,213		1.01	594	0.89	*	276		0.89	154	1.14		212	↗	1.35	78
035	Langley	1.04	*	4,202	↘	0.90	* 1,495	1.08	*	1,204	↘	1.04	613	1.12		323	↘	1.05	173	0.99		166		0.99	82
037	Delta	0.96	*	3,026	↘	0.80	* 1,112	0.98		899	↘	1.00	499	0.86	*	209	↘	0.87	120	0.76	*	101		0.96	45
038	Richmond	0.77	*	4,394	↘	0.59	* 1,551	0.85	*	1,384	↘	0.80	* 716	0.83	*	352		0.68	* 186	0.80	*	132		0.66	* 74
040	New Westminster	1.13	*	2,484	↘	1.11	* 900	1.11	*	646	↘	1.15	321	1.33	*	198		1.41	* 110	1.10		99		1.66	* 45
041	Burnaby	0.96	*	6,871	↘	0.75	* 2,195	0.92	*	1,802	↘	0.86	* 859	0.86	*	440	↘	0.79	* 221	0.99		292		0.91	106
042	Maple Ridge	1.13	*	2,720	↘	0.99	1,138	1.09	*	753		0.95	407	1.42	*	256		1.34	* 153	1.14		114		1.09	51
043	Coquitlam	0.94	*	4,717	↘	0.80	* 2,028	1.00		1,466	↘	0.98	868	1.01		384	↘	0.95	233	0.94		193		0.74	* 74
044	North Vancouver	0.91	*	4,087	↘	0.70	* 1,327	0.91	*	1,146	↘	0.84	* 596	0.82	*	269	↘	0.76	* 166	0.87		183	↗	0.76	59
045	West Vancouver-Bowen Is.	0.33	*	2,342	↘	0.57	* 531	0.86	*	646	↘	0.81	* 279	0.59	*	115	↘	0.48	* 49	0.48	*	57		0.27	* 12
046	Sunshine Coast	0.99		1,337	↘	1.05	520	1.09		423		1.11	228	1.08		111		1.14	68	0.57	*	33		0.65	11
047	Powell River	1.06	*	966	↘	1.15	389	1.11		287		1.03	143	1.06		73		1.05	44	1.10		42		0.80	15
048	Howe Sound	1.03		578	↘	1.10	346	0.91		152	↘	0.83	95	0.90		39		0.83	24	1.34		30		0.63	* 18
049	Bella Coola Valley	1.38	*	97		2.34	* 70	0.97		22	↘	1.24	17	0.81		5		0.80	5	1.01		3		2.24	3
050	Queen Charlotte	1.22	*	142		1.27	80	1.05		37		0.89	26	1.73		16		1.76	13	1.25		6		1.13	3
051	Snow Country	1.26		17		2.40	13	1.36		6		0.72	4	0.84		1		-	-	-		-		-	-
052	Prince Rupert	1.16	*	427	↘	1.14	213	1.02		113		0.87	60	0.93		27		0.52	* 14	1.30		20		1.19	10
053	Upper Skeena	1.09		124		1.32	82	0.92		33		1.04	24	0.94		9		0.90	7	2.30	*	11		2.70	6
054	Smithers	1.13	*	431		1.14	214	1.04		117		1.03	73	1.33		39		1.34	23	1.21		19	↗	1.10	8
055	Burns Lake	1.24	*	271		1.34	* 127	1.03		69		1.04	43	1.22		22		0.97	14	1.93	*	18	↗	0.46	* 5
056	Nechako	1.35	*	509		1.51	* 277	1.14		131		1.24	81	1.21		37		1.13	24	1.33		21		1.12	11
057	Prince George	1.24	*	2,662	↘	1.26	* 1,555	1.33	*	872		1.29	* 595	1.53	*	267		1.44	* 185	1.69	*	150		2.06	* 86
059	Peace River South	1.24	*	827		1.19	* 402	1.19	*	240		1.12	147	1.45	*	78		1.32	49	1.93	*	54	↗	0.99	17
060	Peace River North	1.23	*	727		1.23	* 406	1.19	*	209		1.12	143	1.16		53		1.23	39	1.67	*	40	↗	1.14	20
061	Greater Victoria	0.98		10,638	↘	1.02	2,909	1.01		2,751	↘	1.02	1,150	0.96		660	↘	1.09	319	0.91		408	↗	1.35	* 139
062	Sooke	1.00		1,608	↘	0.91	679	1.01		482	↘	1.00	261	1.03		129	↘	0.81	60	0.89		60		0.66	22
063	Saanich	0.83	*	3,142	↘	0.83	* 831	0.96		981	↘	0.99	415	0.71	*	188	↘	0.70	* 86	0.51	*	82		0.41	* 17
064	Gulf Islands	0.78	*	674	↘	0.83	* 232	0.86	*	214	↘	0.74	* 95	0.73	*	48	↘	0.91	25	0.59	*	22		0.51	* 7
065	Cowichan	1.03		2,259	↘	1.19	* 922	1.10	*	693		1.16	* 374	1.03		172		1.17	105	0.72	*	68		0.80	28
066	Lake Cowichan	1.04		220		1.26	110	1.09		72		1.17	41	1.56	*	28	↗	1.57	19	0.98		9		0.39	* 4
067	Ladysmith	1.13	*	971	↘	1.25	* 338	1.22	*	298		1.24	154	1.23		80		1.25	38	0.79		29	↗	1.76	11
068	Nanaimo	1.07	*	4,377	↘	1.17	* 1,655	1.03		1,189		1.09	639	1.15	*	347		1.21	201	1.32	*	229	↗	1.18	72
069	Qualicum	0.92	*	2,387	↘	0.96	802	1.00		760	↘	0.98	371	0.99		203	↘	1.06	112	0.77	*	87		0.80	31
070	Alberni	1.24	*	1,399	↘	1.46	* 621	1.22	*	407		1.08	213	1.51	*	134		1.21	62	2.08	*	100	↗	1.97	* 46
071	Courtenay	1.00		2,475	↘	0.96	938	1.04		750	↘	1.03	396	1.01		194		0.97	109	0.85		90		0.91	36
072	Campbell River	1.14	*	1,427	↘	1.22	* 695	1.19	*	451	↘	1.22	* 265	1.46	*	146		1.41	* 88	1.19		63		0.51	* 19
075	Mission	1.20	*	1,357	↘	1.23	* 617	1.24	*	396		1.33	* 257	1.41	*	117		1.69	* 84	1.50	*	70	↗	0.83	22
076	Agassiz-Harrison	0.98		297	↘	1.42	* 158	0.83		77		1.29	51	0.71		18		0.78	13	1.14		15		1.81	8
077	Summerland	0.92	*	683	↘	0.74	* 153	0.98		194		0.93	72	0.88		45		0.74	19	0.45	*	14	↘	0.26	* 6
078	Enderby	1.18	*	375		1.24	147	1.28	*	119		1.20	60	1.46	*	36		1.67	19	0.59		8		0.56	4
080	Kitimat	1.12		273	↘	0.98	155	1.07		86		0.85	57	1.43		31		1.26	25	1.25		13		0.70	5
081	Fort Nelson	1.06		84	↘	1.10	64	1.09		25		1.07	21	0.53		3	↘	0.71	2	0.34		1		0.84	1
083	Central Coast	2.22	*	68		2.75	* 47	0.73		7		0.86	5	0.39		1		0.12	* 1	4.71	*	6		2.06	3
084	Vancouver Island West	0.97		48		1.17	42	1.22		20		1.11	17	2.69	*	12		2.99	10	0.96		2		0.65	1
085	Vancouver Island North	1.53	*	387		1.73	* 263	1.51	*	125		1.51	* 85	1.80	*	40		2.00	* 28	1.52		16		0.98	11
087	Stikine	0.93		22		0.97	18	0.62		5		0.48	4	1.36		3		1.85	3	0.99		1		0.82	1
088	Terrace	1.25	*	591	↘	1.34	* 340	1.14		168		1.11	111	0.99		39	↘	0.91	29	1.71	*	34		2.29	20
092	Nisga'a	2.00	*	69		2.23	* 45	1.29		14		1.17	9	1.04		3		0.68	1	3.51	*	5		2.51	4
094	Telegraph Creek	1.38		18		3.46	* 15	0.88		3		0.92	2	-		-		-	-	-		-		-	-
161	Vancouver City Centre	1.06	*	3,170	↘	1.01	1,321	1.04		828	↘	0.97	429	0.94		191		0.95	111	0.89		107		0.94	41
162	Van. Downtown E.Side	1.29	*	2,564	↘	2.42	* 1,601	1.01		545	↘	1.32	* 343	1.20	*	168	↘	1.54	* 107	1.09		90		1.84	* 51
163	Vancouver North East	0.85	*	2,892	↘	0.84	* 1,095	0.93	*	883		0.97	448	0.93		232		0.74	* 110	0.95		135		0.47	* 39
164	Vancouver West Side	0.81	*	3,703	↘	0.61	* 978	0.80	*	953	↘	0.78	* 430	0.59	*	178	↘	0.53	* 83	0.69	*	129		0.57	* 30
165	Vancouver Midtown	0.96	*	2,368	↘	0.89	* 919	0.86	*	589	↘	0.84	* 305	0.88		156	↘	0.72	* 73	0.89		90		0.92	44
166	Vancouver South	0.83	*	4,108	↘	0.70	* 1,211	0.79	*	1,050	↘	0.78	* 481	0.74	*	253		0.66	* 115	0.90		184		0.76	49
201	Surrey	1.02		8,221	↘	1.02	3,950	0.94	*	2,239	↘	0.98	1,374	0.87	*	547	↘	0.93	341	1.24	*	416		1.00	173
202	South Surrey/White Rock	0.93	*	4,323	↘	0.81	* 1,022	0.94	*	1,145		0.90	464	0.86	*	268		0.74	* 111	0.83	*	162	↗	0.99	41
	PROVINCIAL TOTAL	**1.00**		**150,619**	↘	**1.00**	**57,082**	**1.00**		**42,229**	↘	**1.00**	**21,959**	**1.00**		**11,021**	↘	**1.00**	**6,183**	**1.00**		**6,308**	↗	**1.00**	**2,373**

Please refer to footnotes on Table E

Table B

MORTALITY STATISTICS BY LOCAL HEALTH AREA, BRITISH COLUMBIA, 2003-2007

	Local Health Area	05 Diabetes						06 Circulatory System						07 Ischemic Heart Diseases						08 Cerebrovascular Disease/Stroke					
		SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
001	Fernie	0.74		10		0.26	*	2	0.91		113	↘	0.87		39	0.78		46	↘	0.87		21	0.86		24		0.39	*	3
002	Cranbrook	1.44	*	43		1.32		18	1.04		296	↘	0.66	*	60	1.00		132	↘	0.76		27	0.95		62	↘	0.50	*	9
003	Kimberley	0.83		11	↗	0.61		4	0.92		120	↘	0.94		29	0.65	*	39	↘	0.56	*	15	0.85		26	↘	0.79		3
004	Windermere	0.37	*	4		0.53		1	0.67	*	64		0.91		27	0.64	*	29		1.25		18	0.93		20		0.74		5
005	Creston	0.97		23	↗	1.03		9	1.08		249		1.02		51	1.08		116	↘	1.23		29	1.08		58		0.97		12
006	Kootenay Lake	0.38		2		-		-	0.60	*	30	↘	0.39	*	8	0.81		19	↘	0.59		5	0.61		7		0.38	*	2
007	Nelson	1.23		36		0.76		11	1.27	*	366	↘	1.19		89	1.33	*	177		1.19		42	1.27	*	85		0.97		17
009	Castlegar	1.73	*	30	↗	1.70		12	1.27	*	217	↘	1.34		57	1.24	*	98	↘	1.09		28	1.31		52		0.87		9
010	Arrow Lakes	0.79		6		0.40		1	0.86		65	↘	0.73		15	0.70		24	↘	0.43	*	4	0.71		12		0.88		4
011	Trail	1.56	*	48	↗	1.70		22	1.22	*	379	↘	1.51	*	98	1.20	*	171	↘	1.22		38	1.01		74	↘	0.77		14
012	Grand Forks	0.81		13		0.86		3	1.22	*	186	↘	1.20		53	1.41	*	101		1.26		34	1.25		44	↘	0.93		9
013	Kettle Valley	0.57		3		0.40		2	0.87		40		1.16		16	0.72		16	↘	1.02		8	0.98		10		1.88		4
014	Southern Okanagan	1.40	*	62	↗	1.71		19	0.86	*	371	↘	1.16		89	0.79	*	158	↘	0.91		43	0.81		81	↘	1.31		16
015	Penticton	0.82		69		0.83		18	0.91	*	794	↘	1.32	*	153	0.96		385	↘	1.42	*	87	0.86	*	178	↘	1.22		25
016	Keremeos	0.88		9		0.58		2	1.15		111		1.40		28	0.88		40		1.02		8	1.22		27		1.40		5
017	Princeton	0.81		7		0.35	*	3	1.14		89	↘	1.57		34	1.37	*	51	↘	1.85		23	1.25		22		2.50		7
018	Golden	1.93		11		0.88		2	1.32	*	86		1.06		22	1.09		26		1.52		11	1.08		12		0.94		4
019	Revelstoke	1.95	*	16		2.16		9	1.05		80	↘	1.74		32	0.73		26	↘	1.38		12	1.03		18		2.29		7
020	Salmon Arm	0.97		53		0.92		16	0.92		480	↘	1.08		131	0.83	*	201	↘	1.04		69	0.89		107		1.05		27
021	Armstrong-Spallumcheen	0.75		10		0.05	*	1	0.96		122	↘	1.03		32	0.79		47	↘	0.96		16	0.88		26		1.57		7
022	Vernon	1.25	*	118	↗	1.38		38	1.07	*	987	↘	1.26	*	241	1.00		430	↘	1.28		121	1.00		217	↘	1.05		42
023	Central Okanagan	0.87	*	214	↗	0.84		69	1.01		2,440	↘	1.02		517	0.90	*	1,006	↘	0.91		243	1.01		570	↘	1.21		110
024	Kamloops	1.41	*	168	↗	1.16		62	1.08	*	1,182	↘	1.16	*	360	1.14	*	590	↘	1.56	*	233	0.88		220	↘	0.53	*	35
025	100 Mile House	0.58		11		0.96		5	1.14		189		1.05		65	1.22		98		1.12		36	1.25		46		0.86		10
026	North Thompson	1.42		8		1.67		3	1.29		47		1.37		19	1.42		25		1.31		11	1.13		9		1.27		4
027	Cariboo-Chilcotin	2.17	*	49	↗	1.60		18	1.26	*	250	↘	1.16		86	1.11		105		0.94		40	1.26		56	↘	1.45		19
028	Quesnel	1.56	*	37		1.05		16	0.99		212	↘	0.91		64	0.89		91	↘	1.03		37	0.85		41		0.55		6
029	Lillooet	1.11		5		0.11	*	1	1.16		47		1.48		20	0.83		16	↘	1.07		7	0.66		6		1.37		2
030	South Cariboo	1.51		15		1.75		8	1.08		97	↘	1.59		39	1.10		47	↘	1.51		22	0.89		18	↘	1.87		7
031	Merritt	1.54		19		2.04		11	1.52	*	172		1.53		58	1.38	*	74	↘	1.39		26	1.64	*	42		1.02		15
032	Hope	2.46	*	30	↗	3.13	*	14	1.29	*	147	↘	1.42		45	1.37	*	74		1.39		24	1.15		30		2.38		8
033	Chilliwack	1.08		109	↗	1.33		48	1.08	*	1,064	↘	1.27	*	258	1.20	*	544	↘	1.28	*	146	1.02		234	↘	1.35		52
034	Abbotsford	1.14		167	↗	1.27		56	1.04		1,520	↘	1.00		308	1.08	*	726	↘	1.15		175	0.98		339	↘	1.08		58
035	Langley	0.99		131		0.96		46	1.07	*	1,393	↘	1.05		318	1.19	*	713	↘	1.24	*	199	1.05		321	↘	0.97		50
037	Delta	0.72	*	75		0.79		34	1.07	*	1,055	↘	0.89		233	1.07		493	↘	0.88		119	1.16	*	263	↘	0.84		43
038	Richmond	0.83	*	156	↗	0.78		58	0.78	*	1,403	↘	0.64	*	315	0.77	*	644	↘	0.57	*	150	0.85	*	358	↘	0.78		65
040	New Westminster	1.06		75		1.67		33	1.22	*	887	↘	1.30	*	200	1.44	*	473		1.44	*	119	1.05		183	↘	1.17		32
041	Burnaby	0.99		232	↗	0.94		81	1.04		2,383	↘	0.82	*	475	1.26	*	1,338	↘	0.94		275	0.90	*	486	↘	0.81		88
042	Maple Ridge	1.16		91		1.47		43	1.24	*	916	↘	1.08		242	1.39	*	478	↘	1.29	*	140	1.22	*	208	↘	1.04		48
043	Coquitlam	0.91		146		0.73	*	59	0.96		1,433	↘	0.77	*	365	0.99		687	↘	0.80	*	201	1.00		339	↘	0.82		69
044	North Vancouver	0.96		140	↗	0.78		47	1.00		1,417	↘	0.72	*	270	0.95		620	↘	0.64	*	135	1.17	*	387	↘	0.74		54
045	West Vancouver-Bowen Is.	0.52	*	49		0.29	*	10	0.92	*	890	↘	0.46	*	99	0.80	*	353	↘	0.32	*	46	1.17	*	270	↘	0.38	*	17
046	Sunshine Coast	0.50	*	23		0.73		8	1.00		441	↘	1.15		121	0.86	*	177	↘	1.18		59	1.16		119		0.75		21
047	Powell River	0.92		28		0.75		10	1.03		300	↘	1.34		97	1.09		148	↘	1.47		52	0.93		63	↘	1.01		15
048	Howe Sound	1.45		25		0.89		16	1.03		154	↘	1.03		67	1.09		78	↘	1.08		34	0.70		23		0.69		7
049	Bella Coola Valley	1.28		3		3.52		3	1.09		21		1.05		11	1.49		14		1.27		7	0.48		2		0.77		1
050	Queen Charlotte	1.33		5		0.80		2	0.96		32		1.19		13	0.94		15		1.04		7	1.08		8		2.13		3
051	Snow Country	-		-		-		-	0.56		2		0.10	*	1	-		-		-		-	1.28		1		0.64		1
052	Prince Rupert	1.50		18		0.57		8	1.25	*	135	↘	1.36		53	1.06		54	↘	0.90		22	1.23		30		2.01		10
053	Upper Skeena	2.41	*	9		2.05		4	0.92		29	↘	0.90		16	0.79		12		0.50	*	6	0.73		5	↘	1.12		2
054	Smithers	1.31		16		1.43		7	0.99		110	↘	0.74		36	0.92		48	↘	0.86		20	0.60	*	15		0.52		5
055	Burns Lake	1.76		13	↗	0.45		3	1.16		75	↘	1.38		23	1.32		41		1.06		12	0.76		11		2.25		4
056	Nechako	1.29		16		1.03		8	1.33	*	145		1.54	*	56	1.15		60		1.62		32	1.46	*	35		1.26		8
057	Prince George	1.53	*	106		1.79	*	60	1.09	*	658	↘	1.08		268	0.94		271	↘	0.91		111	1.09		145	↘	1.12		56
059	Peace River South	2.23	*	49	↗	1.10		14	1.26	*	247	↘	1.28		87	1.28	*	119	↘	1.63	*	51	1.00		44		0.74		12
060	Peace River North	1.51	*	28	↗	1.37		15	1.19	*	193	↘	1.28		75	1.19		92	↘	1.57	*	43	1.23		44		0.78		11
061	Greater Victoria	0.86	*	303	↗	1.31		99	0.99		3,756	↘	1.00		533	0.95	*	1,510	↘	0.93		261	1.02		935	↘	1.24		115
062	Sooke	0.76		40		0.43	*	15	1.01		487	↘	0.93		139	0.93		213	↘	0.99		76	1.16		128		0.91		26
063	Saanich	0.54	*	89		0.41	*	14	0.75	*	979	↘	0.67	*	156	0.67	*	401	↘	0.64	*	75	0.90		277	↘	0.93		36
064	Gulf Islands	0.44	*	13		0.68		6	0.77	*	221	↘	0.79		54	0.66	*	86	↘	0.99		32	0.84		56		0.44	*	8
065	Cowichan	0.73	*	54		0.77		22	0.96		689	↘	1.04		162	0.90		300	↘	0.82		69	0.92		152	↘	1.42		26
066	Lake Cowichan	0.96		7		0.42		2	1.15		74		1.49		27	0.94		29		0.78		11	1.38		20		1.67		6
067	Ladysmith	0.75		22		0.80		7	1.06		304	↘	1.10		76	0.89		119	↘	0.72		29	1.21		81		0.89		16
068	Nanaimo	1.34	*	184	↗	1.20		58	1.07	*	1,446	↘	1.12		322	1.13	*	708	↘	1.20		173	0.99		311	↘	0.80		44
069	Qualicum	0.78	*	71		0.86		27	0.90	*	776	↘	0.84		161	0.90	*	364	↘	1.00		92	0.80	*	160	↘	0.61	*	27
070	Alberni	2.16	*	82		2.06	*	35	1.21	*	427	↘	1.42	*	129	1.25	*	208	↘	1.33		72	1.11		90	↘	1.68		21
071	Courtenay	0.86		74		0.91		29	0.98		781	↘	0.95		206	0.95		353	↘	0.99		109	1.13		207	↘	1.11		45
072	Campbell River	1.10		46		0.38	*	14	1.08		411	↘	0.92		130	0.91		164	↘	0.93		59	1.06		91		0.88		23
075	Mission	1.53	*	56	↗	1.09		18	1.18	*	412	↘	1.20		113	1.27	*	207	↘	0.94		53	1.05		84	↘	1.54		22
076	Agassiz-Harrison	1.34		14		2.66		8	0.87		81	↘	1.24		34	0.81		36	↘	0.80		14	1.06		22		1.87		10
077	Summerland	0.44	*	11	↘	0.34	*	5	0.89		229	↘	0.76		34	0.89		105	↘	0.54	*	15	1.10		67		1.22		10
078	Enderby	0.37	*	4		0.41		1	1.15		118	↘	1.11		30	1.20		58	↘	1.16		17	1.03		24		0.69		3
080	Kitimat	1.34		11		0.87		3	1.26	*	84		1.11		36	1.26		41		1.71		25	1.11		18		0.50		4
081	Fort Nelson	0.44		1		1.44		1	1.26		24		1.47		13	1.18		11		2.27		9	1.30		5		0.61		2
083	Central Coast	5.02	*	5		2.23		2	2.18	*	18		2.51		9	2.24	*	9		2.25		4	3.39	*	6		4.08		2
084	Vancouver Island West	1.22		2		0.98		1	0.69		9		1.36		8	0.92		6		2.32		6	0.37		1		0.90		1
085	Vancouver Island North	1.59		13		1.33		9	1.37	*	91	↘	2.10	*	55	1.53	*	50	↘	2.51	*	35	1.64	*	23		2.03		10
087	Stikine	1.27		1		1.20		1	1.29		8		1.11		6	0.98		3		1.79		3	0.77		1		0.38		1
088	Terrace	1.72	*	27		2.06		14	1.30	*	173		1.32		67	1.18		76	↘	1.22		36	1.16		34		1.08		10
092	Nisga'a	3.62		4		2.03		3	2.67	*	24		2.09		12	2.28	*	10		2.09		6	2.10		4		3.26		4
094	Telegraph Creek	-		-		-		-	0.50		2		0.63		2	1.07		2		1.31		2	-		-		-		-
161	Vancouver City Centre	0.83		78		1.09		30	0.94		868	↘	0.95		242	0.87	*	375	↘	0.87		123	1.01		223	↘	0.80		29
162	Van. Downtown E.Side	0.97		63		1.74	*	40	1.12	*	716	↘	2.57	*	333	0.99		293	↘	1.83	*	137	1.09		162	↘	2.36	*	59
163	Vancouver North East	1.01		113		0.42	*	29	0.82	*	891	↘	0.84	*	224	0.75	*	375	↘	0.67	*	95	0.96		242	↘	1.08		50
164	Vancouver West Side	0.59	*	86		0.48	*	18	0.76	*	1,166	↘	0.49	*	165	0.70	*	483	↘	0.37	*	63	0.80	*	289	↘	0.57	*	34
165	Vancouver Midtown	0.85		68		1.14		35	0.98		760	↘	1.01		196	0.91		325	↘	0.84		85	1.13		203	↘	1.05		42
166	Vancouver South	0.91		147		0.71	*	38	0.84	*	1,372	↘	0.72	*	248	0.79	*	588	↘	0.61	*	114	0.94		365	↘	1.05		64
201	Surrey	1.30	*	341	↗	1.16		144	1.09	*	2,579	↘	1.12	*	818	1.21	*	1,340	↘	1.30	*	496	1.01		544	↘	1.09		140
202	South Surrey/White Rock	0.76	*	118	↗	0.64	*	28	0.97		1,586	↘	0.76	*	209	1.14	*	839	↘	0.73	*	106	0.91		358	↘	0.84		48
	PROVINCIAL TOTAL	**1.00**		**4,977**	↗	**1.00**		**1,829**	**1.00**		**48,506**	↘	**1.00**		**11,541**	**1.00**		**22,451**	↘	**1.00**		**8,005**	**1.00**		**11,315**	↘	**1.00**		**2,119**

Please refer to footnotes on Table E

		09 Arteries/Arterioles/Capillaries					10 Respiratory System					11 Pneumonia and Influenza					12 Chronic Lung Disease				
	Local Health Area	SMR	(p)	Death	TR	PYLLI (p) D<75	SMR	(p)	Death	TR	PYLLI (p) D<75	SMR	(p)	Death	TR	PYLLI (p) D<75	SMR	(p)	Death	TR	PYLLI (p) D<75
001	Fernie	1.06		9		0.98 4	1.05		42		0.79 14	0.74		12	↘	- -	1.42		23		1.47 10
002	Cranbrook	1.26		24		1.35 12	1.18		107		1.02 30	0.83		31		0.82 8	1.41	*	53		0.97 13
003	Kimberley	1.64		14		2.15 5	0.94		40		1.11 10	0.68		12		0.08 * 1	1.23		21		2.75 8
004	Windermere	0.30		2	↘	0.09 * 1	0.74		23		0.47 * 5	0.58		7		0.53 1	0.99		13		0.45 2
005	Creston	1.05		16		0.31 * 3	0.79		61		1.49 20	0.57	*	18		0.90 4	0.93		29		1.74 10
006	Kootenay Lake	0.59		2		- -	0.62		10		0.30 * 3	0.92		6		0.87 3	0.61		4		- -
007	Nelson	1.65	*	31		3.75 * 16	0.88		82		1.04 19	0.48	*	19	↘	0.78 4	1.25		46		0.80 9
009	Castlegar	1.52		17		1.32 8	1.06		59		2.29 19	1.03		24		2.50 8	1.13		25		1.10 6
010	Arrow Lakes	1.23		6		1.46 2	0.84		20		0.92 2	0.81		8		1.79 1	1.05		10		0.82 1
011	Trail	1.46		29		3.03 13	1.05		107		1.74 23	0.63	*	27		1.81 4	1.57	*	63		1.48 14
012	Grand Forks	1.27		13		2.83 5	0.96		49		0.43 * 7	1.26		26		0.45 2	0.81		17		0.38 * 4
013	Kettle Valley	1.22		4		2.38 3	0.73		11		0.35 * 2	0.18	*	1		- -	1.40		9		0.89 2
014	Southern Okanagan	1.02		29	↘	1.80 11	0.88		127		1.27 28	0.94		55		0.72 6	0.83		49		1.37 14
015	Penticton	0.69	*	38		0.92 9	1.05		305		1.03 43	1.13		140		1.16 14	1.00		115		1.00 21
016	Keremeos	1.37		9		1.59 4	1.00		32		0.99 12	0.63		8		- -	1.43		19		1.85 9
017	Princeton	0.18		1		- -	1.06		27	↘	0.85 7	1.02		10	↘	0.89 1	0.83		9		1.16 4
018	Golden	3.14	*	11		0.70 3	0.93		15		0.66 8	1.14		7		0.42 2	0.89		6	↘	1.16 5
019	Revelstoke	2.52	*	13		3.50 8	1.37		34		1.01 7	1.70		17		1.73 3	1.29		13		1.03 4
020	Salmon Arm	1.09		38		1.16 13	1.00		173		0.49 * 28	0.78		54		0.11 * 3	1.43	*	101		0.97 23
021	Armstrong-Spallumcheen	1.85		14		1.77 4	1.05		44		1.36 11	0.76		13		0.60 2	1.41		24		1.84 7
022	Vernon	1.19		72	↘	1.41 25	1.07		326		0.85 64	0.98		124	↘	1.13 20	1.31	*	161		0.90 34
023	Central Okanagan	1.02		161		0.95 44	0.95		760	↘	0.70 * 116	0.93		308	↘	0.76 28	0.98		317		0.70 * 58
024	Kamloops	1.07		80	↘	0.92 25	1.05		376	↘	1.15 122	0.81	*	114	↘	1.08 29	1.37	*	203		1.36 73
025	100 Mile House	1.18		14	↘	1.52 6	1.30	*	70		1.32 24	1.34		27		1.39 5	1.38		32		1.52 16
026	North Thompson	1.53		4		2.71 1	0.95		11		1.08 5	1.14		5		1.73 1	0.81		4		1.09 3
027	Cariboo-Chilcotin	1.65	*	23		1.48 10	1.11		70	↘	1.37 32	0.61		15	↘	1.24 7	1.26		34		0.87 14
028	Quesnel	1.14		17		2.31 9	1.20		84		1.24 28	1.28		35		1.05 8	1.48	*	43		1.83 17
029	Lillooet	3.92	*	11		2.01 6	1.68	*	22		1.32 8	1.55		8		0.16 * 1	1.83		10		2.39 4
030	South Cariboo	1.76		11		1.90 5	1.00		29		1.63 8	0.62		7		3.97 3	1.48		18		0.64 4
031	Merritt	1.42		11		1.33 5	1.42	*	52		2.23 * 23	0.75		11		1.22 3	1.85	*	28		2.28 11
032	Hope	1.03		8	↘	0.87 5	1.44	*	54		1.68 15	1.34		20		2.82 7	1.67	*	26		1.75 7
033	Chilliwack	0.82		53	↘	0.60 14	1.32	*	430	↗	1.88 * 121	1.41	*	188		2.03 * 33	1.28	*	189		2.02 * 66
034	Abbotsford	0.81		77	↘	0.58 * 15	1.05		505		1.14 103	1.20	*	243		0.98 26	0.97		185		1.42 55
035	Langley	0.80		68	↘	0.35 * 13	1.13	*	482		0.74 * 97	1.16	*	208		0.62 25	1.21	*	204		1.11 57
037	Delta	1.06		70	↘	0.76 24	0.99		316		1.03 59	1.22	*	159		1.27 18	0.77	*	99		0.77 27
038	Richmond	0.80	*	96		0.63 * 32	0.77	*	455	↘	0.40 * 75	0.77	*	189	↘	0.25 * 21	0.71	*	186		0.30 * 27
040	New Westminster	0.89		41		0.67 7	1.12		265	↘	1.28 54	1.09		112	↘	1.40 20	1.16		105		1.38 23
041	Burnaby	0.57	*	86	↘	0.54 * 24	1.15	*	866		0.71 * 143	1.20	*	379		0.55 * 36	1.10		327		0.86 76
042	Maple Ridge	0.79		39		0.86 15	1.22	*	294		1.34 85	1.20		118	↘	1.12 20	1.16		112		1.61 43
043	Coquitlam	0.60	*	60	↘	0.59 * 21	0.98		469	↘	0.67 * 113	1.01		195	↘	0.73 30	0.92		176	↘	0.59 * 51
044	North Vancouver	1.05		98		0.61 * 23	0.94		434	↘	0.70 * 67	1.16	*	223	↘	0.92 20	0.73	*	135		0.47 * 31
045	West Vancouver-Bowen Is.	1.09		57		0.59 11	0.89		265		0.38 * 26	1.25	*	172		0.30 * 9	0.54	*	67	↘	0.28 * 10
046	Sunshine Coast	1.05		31		1.27 13	0.89		130		0.72 24	1.14		68		1.21 11	0.67	*	40		0.30 * 8
047	Powell River	1.08		21		1.50 9	0.92		88		0.99 22	0.80		31		1.05 6	1.19		46		1.35 13
048	Howe Sound	0.95		10	↘	0.49 * 7	0.87		41		0.90 17	0.91		17		0.97 7	0.99		19		1.08 5
049	Bella Coola Valley	1.42		2		1.91 2	0.32		2		- -	0.45		1		- -	0.37		1		- -
050	Queen Charlotte	1.29		3		2.65 2	1.33		14		2.40 6	1.20		5		3.05 1	1.40		6		2.31 3
051	Snow Country	3.80		1		- -	0.95		1		- -	-		-		- -	2.29		1		- -
052	Prince Rupert	1.88	*	14		2.97 8	0.99		34		0.42 * 7	0.74		10		- -	1.19		17		0.25 * 4
053	Upper Skeena	0.88		2		0.79 2	1.40		14		1.12 6	1.34		5		0.69 1	0.70		3		- -
054	Smithers	1.45		11		2.10 5	1.30		46		1.52 18	0.85		12		0.37 2	1.82	*	26	↗	1.66 10
055	Burns Lake	0.87		4		2.32 3	1.06		23		1.51 4	0.86		7		0.67 1	1.22		11		1.97 1
056	Nechako	1.56		12		0.72 3	1.73	*	61		1.67 24	1.40		19		0.63 3	2.36	*	35	↗	2.63 17
057	Prince George	1.78	*	76		1.91 * 40	1.28	*	247		1.36 100	1.08		80	↘	1.31 26	1.42	*	114		1.28 45
059	Peace River South	1.39		19		1.32 8	1.12		71		0.84 17	1.18		29		1.44 6	1.17		31		0.58 9
060	Peace River North	1.41		16		1.64 10	1.33	*	69		0.55 * 16	1.33		27		0.51 5	1.60	*	34		1.10 10
061	Greater Victoria	0.91		211	↘	0.83 41	0.83	*	1,038	↘	0.89 156	0.89	*	381	↘	0.47 * 32	0.95		443	↘	1.24 88
062	Sooke	0.73		24	↘	0.33 * 4	0.94		148	↘	0.82 45	0.85		53		0.74 13	1.08		69		0.98 24
063	Saanich	0.73	*	61	↘	0.43 * 12	0.88	*	373		1.05 48	0.82	*	151		1.42 12	0.79	*	136		0.55 * 18
064	Gulf Islands	0.95		18		0.49 3	0.65	*	62	↘	0.89 15	0.64	*	25		0.40 * 3	0.60	*	23	↘	1.15 8
065	Cowichan	1.01		48	↘	1.38 22	1.08		255	↘	1.68 * 77	0.91		87	↘	1.72 18	1.15		110		1.35 37
066	Lake Cowichan	1.55		7		2.48 3	0.82		17		0.28 * 3	1.14		9	↖	0.11 * 1	0.56		5	↘	0.66 2
067	Ladysmith	1.33		25		1.31 11	1.23	*	116		1.46 21	1.32		51		1.42 7	1.15		44		1.00 12
068	Nanaimo	1.15		102	↘	1.24 35	0.97		430	↘	1.08 115	0.71	*	130		0.71 21	1.16	*	207		1.48 * 70
069	Qualicum	0.98		57	↘	1.16 21	0.88	*	253	↘	0.63 * 36	0.94		107	↘	0.36 * 7	0.88		105		0.76 21
070	Alberni	0.96		23		0.40 * 7	0.89		102	↘	1.14 33	0.63	*	29	↘	0.84 9	1.08		51	↘	1.17 18
071	Courtenay	1.14		61		1.01 24	0.86	*	226		1.03 54	0.61	*	64	↘	0.97 8	1.06		113		1.21 32
072	Campbell River	1.49	*	39		1.26 20	0.89		109		1.12 35	0.82	*	30		1.29 7	1.01		51		0.99 18
075	Mission	0.99		23		1.13 6	1.16		133		1.27 30	0.79		37	↘	0.10 * 5	1.60	*	73		1.13 17
076	Agassiz-Harrison	0.61		4		1.18 2	1.18		36		1.74 14	1.03		12		1.35 2	1.15		15		2.23 8
077	Summerland	0.67		11	↘	0.42 2	0.84		72	↘	0.66 9	0.74		27	↘	0.89 4	0.92		31		0.75 4
078	Enderby	0.43		3	↘	0.65 2	1.15		39		2.09 11	0.87		12		1.80 1	1.50		21		2.69 9
080	Kitimat	1.22		8		1.12 3	0.90		19		1.12 7	1.19		9		2.44 2	0.84		6		0.24 * 3
081	Fort Nelson	2.19		3		2.45 1	0.50		3		0.71 2	-		-		- -	1.28		3		2.93 2
083	Central Coast	-		-		- -	2.63	*	7		9.33 5	5.08	*	5		17.24 4	0.87		1		- -
084	Vancouver Island West	1.00		1		0.37 1	1.22		5		2.34 5	-		-		- -	1.89		3		3.64 3
085	Vancouver Island North	0.20		1		0.22 * 1	2.05	*	42	↗	2.59 * 19	1.60		12		2.64 5	2.40	*	21		2.24 8
087	Stikine	6.35	*	3		1.49 2	-		-		- -	-		-		- -	-		-		- -
088	Terrace	1.25		12		1.67 6	1.31		56		1.60 23	1.49		24	↘	1.66 7	1.15		21		1.40 10
092	Nisga'a	-		-		- -	1.78		5		1.60 2	0.97		1		- -	2.49		3		5.24 2
094	Telegraph Creek	-		-		- -	0.76		1		8.19 1	1.71		1		18.38 1	-		-		- -
161	Vancouver City Centre	1.33	*	80		1.69 * 37	1.13	*	343	↘	1.02 71	1.31	*	171	↘	1.31 29	0.96		111		0.93 28
162	Van. Downtown E.Side	2.10	*	68		4.37 * 57	1.40	*	291		4.68 * 152	1.41	*	122		6.31 * 68	1.41	*	116	↘	3.91 * 61
163	Vancouver North East	0.78		56		0.80 16	0.74	*	265	↘	0.84 * 53	0.73	*	106		0.37 * 16	0.67	*	97	↘	0.52 * 18
164	Vancouver West Side	0.86		82		0.65 * 20	1.10	*	549		0.66 * 50	1.41	*	309		0.99 27	0.61	*	114		0.33 * 9
165	Vancouver Midtown	1.42	*	72		1.26 25	1.02		258	↘	0.78 45	1.12		118	↘	0.71 10	0.90		90		0.96 24
166	Vancouver South	0.91		95		0.99 23	0.82	*	442	↘	0.97 80	1.02		234	↘	1.35 38	0.54	*	112	↘	0.52 * 25
201	Surrey	1.05		171	↘	0.76 46	1.08	*	827	↘	0.95 220	1.24	*	377		1.11 76	1.04		329	↘	0.81 94
202	South Surrey/White Rock	0.85		87		0.48 * 13	0.92		495	↘	0.65 * 56	1.01		235		0.58 * 16	0.74	*	154	↘	0.56 * 24
	PROVINCIAL TOTAL	**1.00**		**3,184**	↘	**1.00 1,043**	**1.00**		**15,887**	↘	**1.00 3,441**	**1.00**		**6,598**	↘	**1.00 957**	**1.00**		**8,334**	↘	**1.00 1,887**

Please refer to footnotes on Table E

Table B

MORTALITY STATISTICS BY LOCAL HEALTH AREA, BRITISH COLUMBIA, 2003-2007

		13 Digestive System						14 Motor Vehicle Accidents						15 Unintentional Falls						16 Suicide					
	Local Health Area	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75
001	Fernie	1.06		18		0.37	* 5	2.43	*	17		2.25	14	0.69		3		1.88	1	0.87		7		1.05	7
002	Cranbrook	1.11		40		0.90	20	1.51		18		1.98	* 18	1.25		12		0.87	4	0.76		10	↘	0.82	9
003	Kimberley	0.76		12		0.27	* 4	1.99		8		2.90	7	2.04		9		0.18	* 1	0.65		3		0.82	3
004	Windermere	0.70		9		0.33	* 3	1.78		8		1.50	7	0.62		2		0.70	1	0.98		5		0.67	5
005	Creston	0.93		25		0.74	7	1.00		6		1.00	5	1.29		10		1.60	2	1.52		10		1.85	9
006	Kootenay Lake	1.55		10		1.70	4	2.28		4	↘	1.87	4	4.20	*	7		6.32	2	2.89	*	6		1.64	5
007	Nelson	0.61	*	22	↘	0.59	10	1.54		18	↘	1.21	16	1.71		17		2.93	5	0.61		8	↘	0.47	* 7
009	Castlegar	1.57	*	33		0.91	13	1.93		12		2.05	10	1.54		9		3.48	3	0.58		4		0.60	4
010	Arrow Lakes	0.99		9		0.48	3	1.75		4		2.63	4	0.81		2		-	-	0.74		2		1.02	2
011	Trail	1.55	*	57		1.73	24	1.26		12		1.33	9	1.41		15		1.70	4	1.23		13		1.43	12
012	Grand Forks	1.31		24		1.61	11	2.91	*	13		3.25	* 12	1.56		8		1.93	3	0.60		4		0.58	3
013	Kettle Valley	0.33		2		-	-	1.72		3		1.54	3	0.66		1		-	-	1.91		4	↘	1.12	4
014	Southern Okanagan	1.12		55		2.17	* 31	1.35		13		1.64	10	1.05		15		0.52	3	1.13		12		1.40	8
015	Penticton	1.07		104		1.45	36	1.22		25		1.45	21	0.88		26		0.72	2	1.50	*	33		1.96	* 33
016	Keremeos	1.39		16		1.04	4	5.78	*	14		8.30	* 13	0.32		1		-	-	1.77		5		1.83	5
017	Princeton	1.71		17		1.12	6	3.29	*	8		5.04	* 8	1.18		3		-	-	0.35		1		-	-
018	Golden	0.56		4	↘	0.57	2	1.18		4		1.69	4	1.18		2		0.19	* 1	1.31		5		1.60	5
019	Revelstoke	1.48		15		0.34	* 5	1.02		4		0.96	4	-		-	↘	-	-	0.69		3		0.54	3
020	Salmon Arm	1.13		71		1.04	25	2.31	*	37		3.01	* 33	1.03		18		0.59	4	1.47		26		1.94	* 24
021	Armstrong-Spallumcheen	0.76		12		0.80	4	2.81	*	12		3.48	* 12	1.16		5		-	-	1.18		6		0.09	6
022	Vernon	0.82		91	↘	0.97	36	1.34		40		1.40	32	1.05		33		1.71	9	1.44	*	47		1.59	* 45
023	Central Okanagan	0.95		272		1.05	109	1.03		83	↘	0.90	67	1.18		97		0.80	17	0.99		86	↘	1.12	80
024	Kamloops	1.27	*	182		1.42	* 94	1.43	*	72	↘	1.25	67	1.33		49		0.91	14	1.32	*	73		1.32	67
025	100 Mile House	1.37		31		1.49	18	3.02	*	21		3.49	* 20	0.92		5		1.32	3	1.84	*	15		1.70	14
026	North Thompson	2.09	*	11		0.88	3	4.05	*	8		5.88	* 8	1.64		2		-	-	0.43		1		0.68	1
027	Cariboo-Chilcotin	1.61	*	46		1.65	27	2.59	*	32		2.93	* 31	0.88		6		0.05	* 1	1.08		15		1.21	15
028	Quesnel	1.03		30		1.20	16	1.82	*	20		1.57	17	1.23		9		0.29	* 3	0.89		11		0.52	* 8
029	Lillooet	2.36	*	13		2.20	8	2.45		5		2.41	4	0.73		1		2.78	1	0.87		2		0.94	2
030	South Cariboo	2.47	*	29		3.18	* 19	4.86	*	17		3.42	* 14	1.01		3		3.76	1	0.75		3		0.98	3
031	Merritt	2.01	*	30		4.31	* 23	3.06	*	16		3.45	* 14	1.83		7		3.78	5	0.85		5	↘	0.74	5
032	Hope	1.27		18		1.89	12	3.04	*	12		3.09	10	2.37	*	9		4.67	4	2.25	*	10		2.02	9
033	Chilliwack	1.09		129		1.21	55	1.07		39	↘	1.04	30	0.75		25		1.11	7	1.13		44		1.12	41
034	Abbotsford	0.86		151		0.84	61	1.22		75		1.22	55	0.73		37	↘	0.84	8	0.82		52	↘	0.90	50
035	Langley	0.91		148		0.71	* 57	0.76		43	↘	0.67	* 33	1.02		46		0.49	* 9	0.95		58		0.85	54
037	Delta	0.90		116		0.78	50	0.68	*	32		0.52	* 28	0.71		24		1.35	7	0.58	*	30		0.49	* 25
038	Richmond	0.72	*	167	↘	0.45	* 59	0.48	*	41		0.42	* 32	0.51	*	32		0.22	* 7	0.59	*	56		0.53	* 49
040	New Westminster	1.12		99	↘	1.13	49	0.80		23		0.83	22	0.83		21		1.03	7	1.24		41	↘	1.04	39
041	Burnaby	0.89		254	↘	0.75	* 95	0.46	*	47	↘	0.48	* 43	1.00		80		0.77	17	0.77	*	85	↘	0.71	* 74
042	Maple Ridge	1.24	*	121		1.23	65	1.30		51		1.48	* 49	0.74		19		0.38	1	1.03		45		1.05	44
043	Coquitlam	0.86		179	↘	0.71	* 84	0.91		86		0.91	79	0.88		46	↘	0.67	16	0.68	*	71		0.58	* 64
044	North Vancouver	0.81	*	146	↘	0.46	* 43	0.48	*	30		0.43	* 25	0.84		41	↘	1.52	11	0.74	*	52	↘	0.65	* 44
045	West Vancouver-Bowen Is.	0.80	*	89		0.27	* 15	0.48	*	12		0.59	* 11	0.69		23	↘	0.47	3	0.77		21		0.53	* 17
046	Sunshine Coast	0.89		48		0.83	23	1.26		17		1.86	16	0.81		12	↘	1.71	3	1.17		18	↘	1.20	17
047	Powell River	1.11		40		0.74	18	1.77	*	17		2.21	* 16	1.43		14		0.95	2	1.28		14		0.91	11
048	Howe Sound	1.20		28		1.28	18	2.01	*	30	↘	2.02	* 29	2.54	*	14		5.39	* 10	0.96		16		0.92	15
049	Bella Coola Valley	1.03		3		0.75	1	4.33	*	6		5.60	6	-		-		-	-	1.91		3		2.45	3
050	Queen Charlotte	1.02		5		0.49	2	1.32		3		0.97	2	-		-		-	-	1.89		5		1.83	5
051	Snow Country	3.29		2		4.88	2	7.24		2		11.66	2	-		-		-	-	2.97		1		5.55	1
052	Prince Rupert	1.44		22		1.32	10	0.73		5		1.10	5	0.27		1	↘	0.83	1	1.57		12		2.02	12
053	Upper Skeena	0.85		4		0.91	2	0.80		2		0.55	2	2.78		3		0.51	2	1.85		5		2.69	5
054	Smithers	1.20		19		0.76	11	1.75		13		2.28	13	1.54		6		0.76	3	1.57		13		1.47	12
055	Burns Lake	1.47		13		1.50	9	3.26	*	12		3.21	* 11	2.72		6		1.74	2	0.75		3		0.80	3
056	Nechako	1.94	*	30		2.23	* 19	3.39	*	24		3.34	* 23	2.12		8		0.89	2	1.28		10		1.47	8
057	Prince George	1.20		107	↘	1.38	73	1.71	*	77	↘	1.49	* 74	1.28		27		1.63	13	1.02		51		1.19	51
059	Peace River South	0.84		23		0.83	12	2.13	*	26		2.27	* 25	1.33		9		0.16	* 1	0.67		9		0.91	9
060	Peace River North	0.91		22		1.23	17	2.78	*	42		2.69	* 40	0.68		4		0.72	3	1.01		16		1.14	15
061	Greater Victoria	1.01		430		1.18	146	0.45	*	49		0.45	* 38	1.29	*	171	↘	0.81	26	1.13		131	↘	1.13	115
062	Sooke	1.01		67		0.85	* 29	1.11		30		0.95	24	0.90		15		0.23	* 2	0.91		28	↘	0.94	26
063	Saanich	0.67	*	99	↘	0.49	* 27	0.84		27		0.94	21	0.97		43		0.80	6	0.63	*	22		0.67	18
064	Gulf Islands	1.05		36		0.88	12	1.10		8		1.59	7	1.15		11		0.09	* 1	1.31		11		1.46	10
065	Cowichan	1.23	*	108		1.66	* 58	1.20		31		1.38	27	0.91		22		0.96	7	1.16		33		1.28	28
066	Lake Cowichan	1.73		15		2.44	12	0.69		2		0.42	1	-		-		-	-	1.49		5		2.21	5
067	Ladysmith	0.94		32		1.09	12	1.06		9		1.12	8	1.25		12		1.82	3	1.16		11		1.61	9
068	Nanaimo	1.01		165		1.12	75	1.01		48	↘	1.19	42	1.15		53		1.62	12	1.41	*	73		1.43	* 62
069	Qualicum	0.80	*	82		1.01	31	1.07		23	↘	1.38	18	1.27		36		0.03	* 1	1.00		24		1.17	21
070	Alberni	1.05		48		1.35	29	1.93	*	29		1.96	* 25	1.42		17		1.92	5	1.96	*	33		2.07	* 31
071	Courtenay	1.15		114		0.83	40	0.80		23	↘	0.97	21	1.30		35		1.59	10	1.05		34		1.09	30
072	Campbell River	1.26		65		1.49	37	1.16		22		0.93	18	1.08		14		1.97	6	1.62	*	35		1.81	* 31
075	Mission	1.48	*	67		1.88	* 41	1.40		26		1.38	24	1.06		13		1.34	6	0.94		19		1.07	17
076	Agassiz-Harrison	1.73	*	21		1.86	10	1.49		6		2.10	6	0.97		3		0.16	* 1	0.89		4		1.23	4
077	Summerland	0.84		24		0.23	* 3	0.85		5		1.00	3	1.14		10		1.74	2	0.79		5		0.91	4
078	Enderby	1.82	*	23		1.48	9	2.76	*	10		3.64	* 9	0.87		3		-	-	1.00		4		0.77	3
080	Kitimat	1.55		16		1.49	10	1.61		8		1.29	8	0.89		2		1.00	2	0.70		4		0.59	3
081	Fort Nelson	1.21		4		0.63	3	3.43	*	10		3.66	* 10	-		-		-	-	0.63		2		0.60	2
083	Central Coast	4.73	*	6		4.63	6	-		-		-	-	3.44		1		-	-	3.87		3		4.44	3
084	Vancouver Island West	0.47		1		0.30	* 1	0.93		1		0.89	1	-		-		-	-	1.58		2		1.92	2
085	Vancouver Island North	1.73	*	19		1.19	13	1.39		8		1.49	8	1.74		4		3.32	4	1.36		9		1.61	9
087	Stikine	1.93		2		1.47	1	2.16		1		3.83	1	-		-		-	-	1.78		1		1.14	1
088	Terrace	1.33		28		1.67	19	1.73		16		1.45	15	1.75		8		2.63	4	1.26		13		1.58	13
092	Nisga'a	2.74		4		2.55	2	-		-		-	-	6.22		2		10.81	2	5.16	*	5		8.55	* 5
094	Telegraph Creek	3.86		2		0.48	1	3.33		1		4.88	1	13.18	*	2		51.05	1	3.56	*	3		10.42	3
161	Vancouver City Centre	1.22	*	146		1.15	68	0.30	*	16		0.19	* 13	0.80		27	↘	0.77	8	1.34	*	83	↘	1.22	76
162	Van. Downtown E.Side	1.70	*	135	↘	2.89	* 94	0.68		19		0.33	* 12	1.17		26	↘	2.42	14	2.06	*	68	↘	2.18	* 66
163	Vancouver North East	0.80	*	108	↘	0.72	* 51	0.45	*	22		0.35	* 18	0.94		35		0.43	* 5	0.77		41		0.70	* 36
164	Vancouver West Side	0.81	*	148	↘	0.42	* 36	0.28	*	18		0.22	* 13	0.81		44		0.81	9	0.87		59		0.63	* 50
165	Vancouver Midtown	1.00		99	↘	1.16	46	0.42	*	17	↘	0.37	* 13	0.81		22		1.18	6	0.97		44		0.93	41
166	Vancouver South	0.81	*	158		0.69	* 58	0.54	*	35	↘	0.49	* 26	0.68	*	39	↘	0.28	* 4	0.64	*	44	↘	0.56	* 40
201	Surrey	0.96		318		0.99	173	0.97		151	↘	0.89	135	0.82		68	↘	1.00	32	0.88		149	↘	0.90	146
202	South Surrey/White Rock	0.87		159		0.96	44	0.66	*	26		0.95	23	0.88		49		0.81	5	1.05		45		1.23	39
	PROVINCIAL TOTAL	**1.00**		**6,029**	↘	**1.00**	**2,872**	**1.00**		**2,019**	↘	**1.00**	**1,769**	**1.00**		**1,671**	↘	**1.00**	**413**	**1.00**		**2,219**	↘	**1.00**	**2,026**

Please refer to footnotes on Table E

Table B

MORTALITY STATISTICS BY LOCAL HEALTH AREA, BRITISH COLUMBIA, 2003-2007

		17 Alcohol-Related Deaths						18 Medically Treatable Disease						19 Drug-Induced Deaths					
	Local Health Area	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75	SMR	(p)	Death	TR	PYLLI	(p) D<75
001	Fernie	1.02		34		0.70	25	0.64		2		0.55	2	0.41		3		0.53	3
002	Cranbrook	1.59	*	98	↗	1.26	69	0.59		3		0.63	3	0.77		9		0.76	9
003	Kimberley	1.26		31		1.08	18	1.12		2		1.15	2	0.50		2		0.69	2
004	Windermere	1.01		24		0.71	18	-		-		-	-	0.44		2		0.42	2
005	Creston	0.99		39		1.28	27	1.62		4		1.38	4	0.56		3		0.57	3
006	Kootenay Lake	1.29		14		1.89	11	-		-		-	-	1.11		2		0.72	2
007	Nelson	1.59	*	95		1.22	57	0.79		4		0.96	4	0.84		10		0.79	9
009	Castlegar	1.52	*	51	↗	1.81	* 38	2.26		6		2.97	6	1.31		8		1.30	7
010	Arrow Lakes	2.31	*	34	↗	2.41	* 22	0.91		1		1.27	1	1.30		3		1.36	3
011	Trail	2.06	*	110	↗	2.20	* 81	1.50		6		1.57	6	0.97		9		0.72	8
012	Grand Forks	1.44	*	41		1.64	30	-		-		-	-	-	*	-		-	-
013	Kettle Valley	0.88		10		0.49	* 7	-		-		-	-	-		-		-	-
014	Southern Okanagan	1.52	*	105	↗	1.84	* 77	1.58		6		1.44	6	0.73		6		1.01	6
015	Penticton	1.17		147		1.35	* 102	1.30		10		1.50	10	1.60	*	29	↗	1.52	26
016	Keremeos	1.39		25		2.35	* 19	-		-		-	-	1.34		3		1.74	3
017	Princeton	0.82		14		0.95	12	0.86		1		0.47	1	1.28		3		1.57	3
018	Golden	1.19		18		1.22	16	1.39		2		2.17	2	0.28		1		0.44	1
019	Revelstoke	1.08		20		1.13	18	1.21		2		0.91	2	0.50		2		0.71	2
020	Salmon Arm	1.22	*	119	↗	1.65	* 93	1.46		10		1.63	10	1.34		20	↗	1.63	20
021	Armstrong-Spallumcheen	0.99		25		0.94	19	0.50		1		0.55	1	0.68		3		0.46	* 3
022	Vernon	1.09		182		1.25	142	0.82		10		0.70	10	1.75	*	49		1.72	* 48
023	Central Okanagan	0.99		429		1.05	315	1.04		33		1.00	33	1.15		87	↗	1.26	82
024	Kamloops	1.19	*	304		1.25	* 241	1.22		26		1.19	26	1.08		53		1.11	50
025	100 Mile House	1.32	*	57		1.81	* 52	0.90		3		1.24	3	0.86		6		0.77	6
026	North Thompson	1.57		17		1.75	13	2.13		2		2.36	2	0.48		1		0.30	* 1
027	Cariboo-Chilcotin	2.02	*	117	↗	2.47	* 98	0.93		5		0.80	5	1.03		13	↗	1.14	13
028	Quesnel	1.35	*	75	↗	1.43	62	0.62		3		0.62	3	0.72		8		0.72	8
029	Lillooet	2.98	*	31		2.53	* 23	3.35		3		2.91	3	0.96		2		0.98	2
030	South Cariboo	2.60	*	55		3.58	* 49	3.19	*	5		4.17	5	0.59		2		0.96	2
031	Merritt	1.72	*	47		2.10	* 35	1.31		3		0.98	3	1.91		10		1.64	10
032	Hope	1.91	*	45		2.71	* 38	2.99		5		2.85	5	1.33		5		1.01	4
033	Chilliwack	0.88		162		1.05	128	0.93		13		1.06	13	1.20		41		1.18	39
034	Abbotsford	0.74	*	203	↗	0.83	* 170	0.62		14		0.82	* 14	0.96		54		1.05	54
035	Langley	0.76	*	201		0.62	* 149	1.04		24		0.95	24	0.72	*	40		0.72	* 38
037	Delta	0.69	*	158		0.59	* 108	1.12		23		1.22	23	0.73		34		0.75	33
038	Richmond	0.42	*	168		0.28	* 112	0.58	*	21		0.46	* 21	0.37	*	32	↘	0.37	* 31
040	New Westminster	1.33	*	180		1.08	134	0.99		12		1.17	12	1.55	*	48	↘	1.49	* 46
041	Burnaby	0.78	*	362		0.53	* 221	0.73		29		0.64	* 29	0.70	*	71	↘	0.71	* 69
042	Maple Ridge	1.00		177		0.89	137	1.15		19	↗	1.04	19	0.88		36		0.82	36
043	Coquitlam	0.69	*	277		0.62	* 222	0.67	*	27		0.65	* 27	0.67	*	66		0.69	* 64
044	North Vancouver	0.60	*	183		0.60	* 135	0.66		18		0.69	18	0.70	*	45		0.72	* 40
045	West Vancouver-Bowen Is.	0.55	*	83		0.44	* 48	0.38	*	4		0.28	* 4	0.27	*	6	↘	0.21	* 5
046	Sunshine Coast	0.95		80		0.85	61	1.14		7		0.87	7	0.68		9		0.71	9
047	Powell River	1.53	*	88		1.96	* 78	1.63		7		1.86	7	1.39		13		1.04	11
048	Howe Sound	1.33	*	73		1.24	60	1.34		8		1.19	8	0.56		9		0.50	* 8
049	Bella Coola Valley	4.79	*	31		5.69	* 28	1.68		1		0.79	1	0.69		1		0.75	1
050	Queen Charlotte	2.87	*	30		2.48	* 25	1.90		2		2.90	2	0.80		2		0.86	2
051	Snow Country	2.16		3		3.63	3	-		-		-	-	-		-		-	-
052	Prince Rupert	2.02	*	62		2.09	* 54	0.68		2		0.44	2	1.13		8		1.11	8
053	Upper Skeena	2.28	*	24		2.55	* 18	0.98		1		0.62	1	0.40		1		0.36	1
054	Smithers	1.21		39		1.12	27	0.94		3		0.78	3	0.26	*	2		0.32	* 2
055	Burns Lake	1.66	*	29		1.25	22	1.32		2		1.89	2	-		-		-	-
056	Nechako	2.15	*	69	↗	1.58	* 55	2.03		6		1.57	6	0.56		4		0.48	* 4
057	Prince George	1.37	*	264	↗	1.38	* 222	1.31		25		1.30	25	0.86		40		0.84	40
059	Peace River South	1.52	*	83		1.93	* 75	1.38		7		1.58	7	0.41	*	5		0.45	* 5
060	Peace River North	1.47	*	80	↗	1.50	* 70	1.23		7		1.39	7	0.47	*	7		0.51	* 7
061	Greater Victoria	1.16	*	632		1.12	438	0.77		32		0.83	32	1.47	*	151		1.50	* 143
062	Sooke	1.12		142	↗	1.19	120	0.83		10		0.89	10	0.90		26		0.84	26
063	Saanich	0.68	*	136		0.61	* 78	0.84		11		0.88	11	0.80		23		0.83	19
064	Gulf Islands	0.96		49		1.00	34	-		-		-	-	0.87		6		1.14	8
065	Cowichan	1.18	*	166	↗	1.30	* 125	0.74		8		0.88	8	0.81		20		0.84	20
066	Lake Cowichan	1.35		22		1.29	20	3.04		4		2.28	4	1.02		3		1.30	3
067	Ladysmith	1.31	*	68		1.11	38	0.82		3		0.87	3	0.50		4		0.52	3
068	Nanaimo	1.08		274		1.20	* 216	1.17		23		1.21	23	1.02		46		0.98	43
069	Qualicum	0.84	*	127		1.00	88	0.33	*	3		0.28	* 3	0.42	*	8		0.29	* 8
070	Alberni	1.89	*	152	↗	2.09	* 121	1.23		8		1.03	8	1.28		19		1.33	17
071	Courtenay	1.35	*	220	↗	1.05	145	0.83		8		0.73	8	0.96		27		0.98	26
072	Campbell River	1.50	*	146		1.53	* 123	0.92		8		0.95	8	1.54	*	30		1.60	30
075	Mission	1.03		85		1.14	78	0.66		5		0.71	5	1.18		22		1.18	22
076	Agassiz-Harrison	1.07		24		1.50	18	1.22		2		0.97	2	1.31		5		1.23	4
077	Summerland	0.29	*	11		0.29	* 9	-		-		-	-	0.19		1		0.25	* 1
078	Enderby	1.30		27		1.96	20	2.61		4		3.42	4	0.59		2		0.24	* 1
080	Kitimat	1.20		28		0.99	24	0.45		1		0.21	* 1	0.57		3		0.43	* 3
081	Fort Nelson	1.62		15		1.64	15	1.79		2		2.24	2	0.97		3		0.93	3
083	Central Coast	7.87	*	23		6.08	* 18	10.57	*	3		9.17	3	-		-		-	-
084	Vancouver Island West	0.97		5		0.68	5	-		-		-	-	-		-		-	-
085	Vancouver Island North	2.78	*	73		3.23	* 68	1.85		5		2.11	5	0.65		4		0.67	4
087	Stikine	2.46		6		1.79	6	-		-		-	-	-		-		-	-
088	Terrace	1.72	*	72	↗	2.14	* 64	1.76		7		1.86	7	0.42		4		0.50	4
092	Nisga'a	4.81	*	17		6.68	* 14	-		-		-	-	2.26		2		3.38	2
094	Telegraph Creek	3.80	*	4		6.71	4	9.10		1		11.51	1	-		-		-	-
161	Vancouver City Centre	0.98		210		0.82	* 181	1.80	*	37		1.59	* 37	1.53	*	91	↘	1.28	87
162	Van. Downtown E.Side	2.61	*	356	↘	2.79	* 313	4.50	*	50		4.39	* 50	6.12	*	180	↘	5.93	* 166
163	Vancouver North East	0.57	*	127		0.53	* 92	1.04		19		0.79	19	0.91		44	↘	0.89	43
164	Vancouver West Side	0.45	*	124		0.35	* 84	0.61		15		0.66	15	0.59	*	37		0.50	* 33
165	Vancouver Midtown	0.89		154		0.89	126	0.63		10		0.65	10	0.98		42	↘	0.94	41
166	Vancouver South	0.50	*	149		0.55	* 108	0.85		21		0.93	21	0.54	*	34	↘	0.52	* 34
201	Surrey	0.85	*	548	↗	0.87	* 453	1.10		69		1.06	69	1.14		180		1.16	180
202	South Surrey/White Rock	0.57	*	134		0.60	* 89	0.61		13		0.90	13	0.80		29		0.82	24
	PROVINCIAL TOTAL	**1.00**		**9,875**		**1.00**	**7,551**	**1.00**		**827**		**1.00**	**827**	**1.00**		**2,000**	↘	**1.00**	**1,526**

Please refer to footnotes on Table E

TABLE C
SUMMARY STATISTICS BY HEALTH SERVICE DELIVERY AREA
BRITISH COLUMBIA, 2003-2007

Health Service Delivery Area	2007 Population	Live Birth		Stillbirth		Death		Infant Death	
		Total	Rate	Total	Rate[2]	Total	Rate	Total	Rate[1]
11 East Kootenay	79,014	3,355	8.62	18	5.34	2,893	7.43	11	3.28
12 Kootenay Boundary	80,101	3,078	7.77	23	7.42	3,707	9.36	14	4.55
13 Okanagan	345,202	13,207	8.02	107	8.04	16,092	9.78	52	3.94
14 Thompson/Cariboo/Shushwap	222,124	9,505	8.75	70	7.31	8,558	7.88	46	4.84
21 Fraser East	274,514	15,961	12.04	134	8.33	9,979	7.53	61	3.82
22 Fraser North	578,733	28,751	10.19	204	7.05	16,792	5.95	91	3.17
23 Fraser South	673,124	36,554	11.28	264	7.17	19,772	6.10	137	3.75
31 Richmond	186,628	7,933	8.77	65	8.13	4,394	4.86	25	3.15
32 Vancouver	624,666	29,299	9.60	267	9.03	18,879	6.19	131	4.47
33 North Shore/Coast Garibaldi	275,873	11,770	8.67	83	7.00	9,475	6.98	45	3.82
41 South Vancouver Island	366,265	14,329	8.02	89	6.17	16,062	8.99	68	4.75
42 Central Vancouver Island	262,371	10,430	8.22	94	8.93	11,613	9.15	63	6.04
43 North Vancouver Island	120,990	5,042	8.59	34	6.70	4,337	7.39	27	5.36
51 Northwest	77,059	4,510	11.43	36	7.92	2,114	5.36	24	5.32
52 Northern Interior	145,217	8,011	10.97	71	8.78	4,273	5.85	40	4.99
53 Northeast	68,375	4,880	14.12	32	6.79	1,638	4.94	17	3.63
Provincial Total	**4,380,256**	**206,488**	**9.69**	**1,592**	**7.65**	**150,610**	**7.06**	**852**	**4.13**

Health Service Delivery Area	Low Birth Wt. Live Birth		Cesarean		Pre-term		Teenage Mother		Elderly Gravida	
	Total	Rate[1]	Total	Rate[1]	Total	Rate[1]	Total	Rate[1]	Total	Rate[1]
11 East Kootenay	159	47.39	1,026	305.81	213	63.49	211	62.89	466	138.90
12 Kootenay Boundary	151	49.06	715	232.29	202	65.63	108	35.09	534	173.49
13 Okanagan	701	53.08	3,910	296.06	1,029	77.91	573	43.39	2,175	164.69
14 Thompson/Cariboo/Shushwap	544	57.23	3,139	330.25	774	81.43	552	58.07	1,313	138.14
21 Fraser East	786	49.25	4,366	273.54	1,139	71.36	756	47.37	1,992	124.80
22 Fraser North	1,725	60.00	8,708	302.88	2,226	77.42	503	17.50	7,601	264.37
23 Fraser South	2,184	59.75	11,319	309.65	2,672	73.10	828	22.65	6,975	190.81
31 Richmond	442	55.72	2,453	309.21	536	67.57	73	9.20	2,336	294.47
32 Vancouver	1,795	61.26	8,409	287.01	2,312	78.91	377	12.87	9,736	332.30
33 North Shore/Coast Garibaldi	590	50.13	3,610	306.71	868	73.75	284	24.13	3,872	328.97
41 South Vancouver Island	759	52.97	4,897	341.75	1,146	79.98	442	30.85	3,323	231.91
42 Central Vancouver Island	578	55.42	2,929	280.82	918	88.02	677	64.91	1,606	153.9
43 North Vancouver Island	269	53.35	1,416	280.84	367	72.79	373	73.98	765	151.73
51 Northwest	193	42.79	1,255	278.27	356	78.94	433	96.01	603	133.70
52 Northern Interior	429	53.55	2,237	279.24	545	68.03	547	68.28	976	121.83
53 Northeast	182	38.89	1,249	266.88	198	42.31	377	80.56	448	95.73
Provincial Total	**11,489**	**55.64**	**61,654**	**298.58**	**15,505**	**75.09**	**7,120**	**34.48**	**44,733**	**216.64**

Please refer to footnotes on Table E

TABLE D
MORTALITY STATISTICS BY HEALTH SERVICE DELIVERY AREA
BRITISH COLUMBIA, 2003-2007

		01 All Causes of Death							02 Malignant Neoplasms							03 Malignant Neoplasms of Lung							04 End/Nut/Met. Diseases						
	Health Service Delivery Area	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
11	East Kootenay	1.01		2,893	↘	0.99		1,168	1.00		835		1.02		489	1.03		227		1.01		133	1.04		127	↗	0.88		48
12	Kootenay Boundary	1.11	*	3,707	↘	1.18	*	1,447	1.06		1,001	↘	1.08		539	0.98		242		1.12		156	1.19	*	168	↗	1.11		88
13	Okanagan	1.02		16,092	↘	1.10	*	5,344	1.03		4,543		1.04		2,108	1.09	*	1,265		1.17	*	670	0.94		632	↗	1.05		204
14	Thompson/Cariboo/Shushwap	1.14	*	8,558	↘	1.28	*	3,943	1.06	*	2,393	↘	1.07		1,375	1.16	*	699		1.15	*	414	1.28	*	411	↗	1.17		165
21	Fraser East	1.08	*	9,979	↘	1.15	*	3,893	1.08	*	2,786		1.16	*	1,501	1.07		724		1.19	*	445	1.19	*	463	↗	1.29	*	180
22	Fraser North	1.00		16,792	↘	0.84	*	6,261	0.99		4,667	↘	0.95	*	2,455	1.05		1,278	↘	1.00		717	1.01		698		0.96		276
23	Fraser South	0.99		19,772	↘	0.93	*	7,579	0.97	*	5,487	↘	0.98		2,950	0.92	*	1,347	↘	0.91	*	745	1.02		845	↗	0.99		321
31	Richmond	0.77	*	4,394	↘	0.59	*	1,551	0.85	*	1,384	↘	0.80	*	716	0.83	*	352		0.68	*	186	0.80	*	192		0.66	*	74
32	Vancouver	0.93	*	18,879	↘	0.97	*	7,188	0.88	*	4,856	↘	0.90	*	2,441	0.83	*	1,180	↘	0.78	*	599	0.86	*	735		0.81	*	254
33	North Shore/Coast Garibaldi	0.93	*	9,475	↘	0.82	*	3,230	0.94	*	2,683	↘	0.88	*	1,363	0.82	*	613	↘	0.78	*	357	0.78	*	334		0.66	*	121
41	South Vancouver Island	0.94	*	16,062	↘	0.96	*	4,651	0.99		4,428	↘	0.99		1,921	0.90	*	1,025	↘	0.95		490	0.80	*	572		1.00		185
42	Central Vancouver Island	1.04	*	11,613	↘	1.18	*	4,448	1.07	*	3,419	↘	1.09	*	1,792	1.14	*	964		1.18	*	537	1.10	*	522	↗	1.15		192
43	North Vancouver Island	1.08	*	4,337	↘	1.14	*	1,938	1.12	*	1,346	↘	1.15	*	765	1.23	*	392		1.26	*	235	1.00		171		0.77		67
51	Northwest	1.19	*	2,114	↘	1.25	*	1,175	1.06		581		0.98		370	1.15		168		1.03		115	1.47	*	109	↗	1.50		57
52	Northern Interior	1.24	*	4,273	↘	1.28	*	2,367	1.27	*	1,342		1.25	*	880	1.47	*	411		1.35	*	274	1.62	*	233	↗	1.74	*	123
53	Northeast	1.22	*	1,638	↘	1.20	*	872	1.19	*	474		1.12		311	1.27	*	134		1.23		90	1.73	*	95	↗	1.05		38
	Provincial Total	**1.00**		**150,610**	↘	**1.00**		**57,062**	**1.00**		**42,229**	↘	**1.00**		**21,959**	**1.00**		**11,021**	↘	**1.00**		**6,163**	**1.00**		**6,308**	↗	**1.00**		**2,373**

		05 Diabetes							06 Circulatory System							07 Ischemic Heart Diseases							08 Cerebrovascular Diseases/Stroke						
	Health Service Delivery Area	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
11	East Kootenay	1.06		102	↗	0.86		36	0.99		908	↘	0.86		228	0.91		388	↘	0.96		121	0.96		202	↘	0.68	*	36
12	Kootenay Boundary	1.24	*	138	↗	1.03		51	1.18	*	1,283	↘	1.22	*	336	1.20	*	606	↘	1.10		159	1.12		284	↘	0.91		59
13	Okanagan	0.94		504	↗	0.93		156	0.99		5,261	↘	1.13	*	1,158	0.93	*	2,280	↘	1.06		573	0.97		1,212	↘	1.22	*	225
14	Thompson/Cariboo/Shushwap	1.34	*	342	↗	1.24		133	1.09	*	2,544	↘	1.20	*	810	1.07	*	1,182	↘	1.33	*	456	0.98		522	↘	0.92		126
21	Fraser East	1.22	*	376	↗	1.39	*	144	1.07	*	3,224	↘	1.14	*	758	1.14	*	1,587	↘	1.16	*	412	1.01		709	↘	1.32	*	150
22	Fraser North	1.00		544		1.03		216	1.07	*	5,619	↘	0.90	*	1,282	1.23	*	2,976	↘	1.00		735	0.99		1,216	↘	0.89		237
23	Fraser South	1.02		665	↗	0.98		252	1.05	*	6,613	↘	1.01		1,578	1.16	*	3,385	↘	1.13	*	920	1.02		1,486	↘	0.99		281
31	Richmond	0.83	*	156	↗	0.78		58	0.78	*	1,403	↘	0.64	*	315	0.77	*	644	↘	0.57	*	150	0.85	*	358	↘	0.78		65
32	Vancouver	0.84	*	555		0.84	*	190	0.88	*	5,802	↘	0.97		1,413	0.81	*	2,442	↘	0.78	*	618	0.96		1,486	↘	1.05		280
33	North Shore/Coast Garibaldi	0.81	*	273		0.72	*	96	0.98		3,241	↘	0.81	*	674	0.92	*	1,399	↘	0.77	*	337	1.13	*	870	↘	0.70	*	117
41	South Vancouver Island	0.76	*	425	↗	0.95		134	0.93	*	5,443	↘	0.91	*	882	0.87	*	2,312	↘	0.89	*	444	1.00		1,396	↘	1.08		185
42	Central Vancouver Island	1.11	*	420	↗	1.10		151	1.02		3,716	↘	1.09		877	1.02		1,728	↘	1.05		446	0.96		814	↘	1.02		140
43	North Vancouver Island	1.00		135		0.77		53	1.03		1,292	↘	1.07		399	0.97		573	↘	1.15		209	1.12	*	322	↘	1.12		79
51	Northwest	1.56	*	91	↗	1.33		42	1.18	*	599	↘	1.14		242	1.08		261	↘	1.12		127	1.02		114	↘	1.16		40
52	Northern Interior	1.52	*	172	↗	1.50	*	87	1.10	*	1,090	↘	1.12		411	0.98		463	↘	1.01		192	1.06		232	↘	1.09		74
53	Northeast	1.82	*	78	↗	1.25		30	1.23	*	464	↘	1.30	*	175	1.24	*	222	↘	1.66	*	103	1.11		93		0.74		25
	Provincial Total	**1.00**		**4,977**	↗	**1.00**		**1,829**	**1.00**		**48,506**	↘	**1.00**		**11,541**	**1.00**		**22,451**	↘	**1.00**		**6,006**	**1.00**		**11,315**	↘	**1.00**		**2,119**

		09 Arteries/Arterioles/Capillaries							10 Respiratory System							11 Pneumonia and Influenza							12 Chronic Lung Disease						
	Health Service Delivery Area	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
11	East Kootenay	1.24		76		0.98		28	0.96		268	↘	0.98		87	0.72	*	87		0.52	*	16	1.19	*	145		1.37		48
12	Kootenay Boundary	1.42	*	102		2.52	*	47	0.95		338		1.24		75	0.75	*	111	↘	1.30		22	1.22	*	174		0.91		36
13	Okanagan	0.98		338	↘	1.09		101	0.98		1,732	↘	0.87		301	0.96		697	↘	0.89		76	1.05		746		0.94		160
14	Thompson/Cariboo/Shushwap	1.28	*	205	↘	1.26		79	1.10	*	837	↘	1.15		255	0.86	*	256	↘	1.10		55	1.40	*	443		1.27	*	152
21	Fraser East	0.84	*	165	↘	0.71		42	1.17	*	1,158		1.43	*	283	1.22	*	500		1.24		73	1.18	*	468		1.62	*	153
22	Fraser North	0.66	*	226	↘	0.62	*	67	1.11	*	1,894	↘	0.86	*	395	1.13	*	804	↘	0.79		106	1.06		720	↘	0.94		193
23	Fraser South	0.95		396	↘	0.64	*	96	1.03		2,120	↘	0.88		432	1.16	*	979		0.98		135	0.96		786	↘	0.82	*	202
31	Richmond	0.80	*	98		0.63	*	32	0.77	*	455	↘	0.40	*	75	0.77	*	189	↘	0.25	*	21	0.71	*	166		0.30	*	27
32	Vancouver	1.12	*	474		1.40	*	179	1.00		2,153	↘	1.21	*	455	1.16	*	1,062	↘	1.52	*	189	0.77	*	642	↘	0.96		167
33	North Shore/Coast Garibaldi	1.06		229		0.77		65	0.91	*	987	↘	0.72	*	161	1.15	*	517	↘	0.93		57	0.72	*	309	↘	0.53	*	67
41	South Vancouver Island	0.85	*	314	↘	0.65	*	60	0.84	*	1,621	↘	0.91		264	0.73	*	610	↘	0.69	*	80	0.90	*	671	↘	1.04		138
42	Central Vancouver Island	1.09		262	↘	1.18		99	0.98		1,173	↘	1.13		285	0.85	*	413	⇔	0.91		53	1.07		522		1.20		160
43	North Vancouver Island	1.19		102		1.01		46	0.93		382		1.25		113	0.65	*	106		1.24		20	1.12		188		1.28		61
51	Northwest	1.45	*	52		1.86	*	28	1.18	*	190		1.31		68	1.08		67	↘	1.26		14	1.22		83		1.06		32
52	Northern Interior	1.56	*	109		1.88	*	55	1.30	*	415		1.38	*	156	1.14		141	↘	1.16		38	1.53	*	203		1.59	*	80
53	Northeast	1.44	*	38		1.56		19	1.18		143	↘	0.69		35	1.18		56		0.85		11	1.36	*	68		0.97		21
	Provincial Total	**1.00**		**3,184**	↘	**1.00**		**1,043**	**1.00**		**15,887**	↘	**1.00**		**3,441**	**1.00**		**6,598**	↘	**1.00**		**557**	**1.00**		**6,334**	↘	**1.00**		**1,897**

Please refer to footnotes on Table E

TABLE D

MORTALITY STATISTICS BY HEALTH SERVICE DELIVERY AREA

BRITISH COLUMBIA, 2003-2007

		13 Digestive System						14 Motor Vehicle Accidents						15 Unintentional Falls						16 Suicide					
	Health Service Delivery Area	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
11	East Kootenay	0.93		108		0.60	*	41	1.66	*	61		1.91	*	55	1.22		38		0.98		10	0.97		40	↘	1.07		38
12	Kootenay Boundary	1.17		157		1.06		65	1.75	*	86	↘	1.72	*	58	1.59	*	59		2.44	*	17	0.98		41	↘	0.85		37
13	Okanagan	0.99		614		1.13		238	1.32	*	210	↘	1.39	*	175	1.08		193		0.91		33	1.15		199	↘	1.30	*	184
14	Thompson/Cariboo/Shushwap	1.40	*	428		1.57	*	220	2.06	*	212	↘	2.14	*	195	1.16		91	↘	1.01		29	1.25	*	143	↘	1.32	*	134
21	Fraser East	1.05		386		1.19		179	1.28	*	158		1.27	*	135	0.84		87	↘	1.10		26	0.98		129	↘	1.03		121
22	Fraser North	0.96		653	↘	0.85	*	293	0.78	*	207		0.82	*	193	0.91		166	↘	0.70		41	0.83	*	242	↘	0.75	*	221
23	Fraser South	0.92	*	741	↘	0.90		324	0.84	*	252	↘	0.80	*	219	0.86	*	187	↘	0.94		53	0.87	*	282	↘	0.86	*	264
31	Richmond	0.72	*	167	↘	0.45	*	59	0.48	*	41		0.42	*	32	0.51	*	32		0.22	*	7	0.59	*	56		0.53	*	46
32	Vancouver	0.99		800	↘	1.02		358	0.43	*	127	↘	0.32	*	95	0.83	*	193	↘	0.84		46	1.04		343	↘	0.95		313
33	North Shore/Coast Garibaldi	0.88	*	300	↘	0.80	*	124	0.88		112		1.00		103	0.93		105	↘	1.75	*	29	0.89		127	↘	0.78	*	110
41	South Vancouver Island	0.94		632		0.94		214	0.65	*	114		0.65	*	90	1.18	*	240	↘	0.68	*	35	1.01		192	↘	1.03		169
42	Central Vancouver Island	1.02		450		1.27	*	217	1.17		142	↘	1.34	*	121	1.15		140	↘	1.21		28	1.33	*	179	↘	1.48	*	156
43	North Vancouver Island	1.21	*	199		1.09		91	0.99		54	↘	1.02		48	1.25		53		1.89		20	1.30	*	80		1.43	*	72
51	Northwest	1.37	*	102		1.30		60	1.45	*	51		1.54	*	49	1.37		24		1.88		15	1.57	*	62		1.89	*	60
52	Northern Interior	1.26	*	180		1.44	*	117	1.99	*	133	↘	1.79	*	125	1.45	*	50	↘	1.34		20	1.01		75	↘	1.09		70
53	Northeast	0.89		49		1.00		32	2.58	*	78		2.63	*	75	0.97		13		0.42	*	4	0.83		27	↘	1.00		26
	Provincial Total	**1.00**		**6,026**	↘	**1.00**		**2,832**	**1.00**		**2,019**	↘	**1.00**		**1,769**	**1.00**		**1,671**	↘	**1.00**		**413**	**1.00**		**2,219**	↘	**1.00**		**2,026**

		17 Alcohol-Related Deaths						18 Medically Treatable Disease						19 Drug-Induced Deaths						
	Health Service Delivery Area	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
11	East Kootenay	1.24	*	244	↗	1.06		173	0.82		13		0.85		13	0.55	*	20		0.60	*	20
12	Kootenay Boundary	1.67	*	355	↗	1.68	*	246	1.04		17		1.34		17	0.86		32		0.77		29
13	Okanagan	1.06		965		1.18	*	715	1.02		65		1.01		65	1.24	*	183	↗	1.30	*	173
14	Thompson/Cariboo/Shushwap	1.41	*	767		1.68	*	620	1.33	*	59		1.35		59	1.09		109		1.15		108
21	Fraser East	0.88	*	519	↗	1.03		432	0.82		39		0.85		39	1.09		127		1.11		123
22	Fraser North	0.84	*	996		0.68	*	714	0.80	*	87		0.76	*	87	0.81	*	221	↘	0.81	*	215
23	Fraser South	0.76	*	1,041	↗	0.75	*	799	1.05		129		1.05		129	0.95		283		0.98		275
31	Richmond	0.42	*	166		0.28	*	112	0.58	*	21		0.46	*	21	0.37	*	32	↘	0.37	*	31
32	Vancouver	0.86	*	1,138	↘	0.85	*	922	1.34	*	155		1.29	*	155	1.47	*	451	↘	1.37	*	440
33	North Shore/Coast Garibaldi	0.85	*	561		0.87	*	428	0.87		48		0.82		48	0.65	*	83	↘	0.82	*	74
41	South Vancouver Island	1.04		959	↗	1.03		670	0.76	*	53		0.81		53	1.23	*	206		1.26	*	194
42	Central Vancouver Island	1.16	*	809		1.30	*	608	0.96		49		0.97		49	0.87		100		0.87		94
43	North Vancouver Island	1.52	*	444	↗	1.46	*	341	0.85		21		0.95		21	1.11		61		1.15		60
51	Northwest	1.81	*	285	↗	1.96	*	239	1.11		17		1.10		17	0.80	*	22		0.64	*	22
52	Northern Interior	1.47	*	437	↗	1.40	*	361	1.27		36		1.25		36	0.78		52		0.74	*	52
53	Northeast	1.50	*	178	↗	1.69	*	160	1.35		16		1.56		16	0.50	*	15		0.53	*	15
	Provincial Total	**1.00**		**9,875**		**1.00**		**7,551**	**1.00**		**827**		**1.00**		**827**	**1.00**		**2,000**	↘	**1.00**		**1,926**

Please refer to footnotes on Table E

TABLE E
SUMMARY STATISTICS BY HEALTH AUTHORITY
BRITISH COLUMBIA, 2003-2007

	Health Authority	2007 Population	Live Birth Total	Live Birth Rate	Stillbirth Total	Stillbirth Rate[2]	Death Total	Death Rate	Infant Death Total	Infant Death Rate[1]
01	Interior	726,441	29,145	8.29	218	7.42	31,250	2.87	123	4.22
02	Fraser	1,526,371	81,266	11.00	602	7.35	46,543	3.66	289	3.56
03	Vancouver Coastal	1,087,167	49,002	9.22	415	8.40	32,748	3.66	201	4.10
04	Vancouver Island	749,626	29,801	8.18	217	7.23	32,012	6.28	158	5.30
05	Northern	290,651	17,201	11.81	139	8.02	8,025	5.51	81	4.71
	Provincial Total	**4,380,256**	**206,488**	**9.69**	**1,592**	**7.85**	**150,610**	**7.06**	**852**	**4.13**

	Health Authority	Low Birth Wt. Live Birth Total	Low Birth Wt. Live Birth Rate[1]	Cesarean Total	Cesarean Rate[1]	Pre-term Total	Pre-term Rate[1]	Teenage Mother Total	Teenage Mother Rate[1]	Elderly Gravida Total	Elderly Gravida Rate[1]
01	Interior	1,555	53.35	8,790	301.60	2,218	76.10	1,444	49.55	4,488	153.99
02	Fraser	4,695	57.77	24,393	300.16	6,037	74.29	2,087	25.68	16,568	203.87
03	Vancouver Coastal	2,827	57.69	14,472	295.33	3,716	75.83	734	14.98	15,944	325.37
04	Vancouver Island	1,606	53.89	9,242	310.12	2,431	81.57	1,492	50.07	5,694	191.07
05	Northern	804	46.74	4,741	275.62	1,099	63.89	1,357	78.89	2,027	117.84
	Provincial Total	**11,489**	**55.64**	**61,654**	**298.58**	**15,505**	**75.09**	**7,120**	**34.48**	**44,733**	**216.64**

Note: Total is the number of events in the specified category for the five year time period.
Infant Death - deaths of children under one year of age.
Low Birth Weight live births - live births with birth weight <2,500 grams.
Cesarean - live births delivered by cesarean section.
Pre-term - live births with gestational age <37 weeks.
Teenage Mother - live births to mothers under 20 years of age.
Elderly Gravida - live births to mothers 35 years of age or older.
Death is the total number of deaths from the specified cause for the five year period.
D<75 is the number of deaths under 75 years of age from the specified cause.
SMR - Standardized Mortality Ratio.
PYLLI - Potential Years of Life Lost Index.
Rate - per 1,000 population in the specified area.
Rate[1] - rate per 1,000 live births in the specified area.
Rate[2] - per 1,000 total births in the specified area.
SMR, PYLLI, and Rate are based on the five year period ending with the current year.
* Statistical testing indicates that observed deaths are statistically different from the expected deaths ($p<0.05$, two tailed).
TR - Trend in ASMR based on single year rates for the previous 15 years:
↗ indicates a statistically significantly positive (icreasing) trend, and
↘ indicates a statistically significantly negative (decreasing) trend.
Trends shown in previous annual reports were based on three year moving averages and should not be compared to the trends in these tables.
TR* - Trend reflects change in *Medical Certification of Death* introduced in 1993. The revised form contained questions about lifestyle factors including abuse of alcohol, which resulted in increased reporting of deaths indirectly related to alcohol
HSDA 32 Vancouver may include unspecified Vancouver addresses.
N.S. - Not Stated.
Non-residents are excluded.

TABLE F
MORTALITY STATISTICS BY HEALTH AUTHORITY
BRITISH COLUMBIA, 2003-2007

	Health Authority	01 All Causes of Death							02 All Cancer Sites							03 Lung Cancer							04 End/Nut/Met. Diseases						
		SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
01	Interior	1.06	*	31,250	↘	1.15	*	11,902	1.04	*	8,772	↘	1.05	*	4,491	1.09	*	2,433		1.14	*	1,373	1.06	*	1,338	↗	1.08		485
02	Fraser	1.01	*	46,543	↘	0.94	*	17,733	1.00		12,940	↘	1.00		6,906	1.00		3,349	↘	0.99		1,907	1.05	*	2,006	↗	1.03		777
03	Vancouver Coastal	0.90	*	32,748	↘	0.87	*	11,969	0.89	*	8,923	↘	0.88	*	4,520	0.83	*	2,145	↘	0.76	*	1,142	0.84	*	1,261		0.74	*	449
04	Vancouver Island	0.99		32,012	↘	1.07	*	11,037	1.04	*	9,193	↘	1.05	*	4,478	1.03		2,381	↘	1.09	*	1,262	0.93	*	1,265	↗	1.02		444
05	Northern	1.22	*	8,025	↘	1.25	*	4,414	1.20	*	2,397		1.15	*	1,561	1.34	*	713		1.24	*	479	1.60	*	437	↗	1.53	*	218
	Provincial Total	**1.00**		**150,610**	↘	**1.00**		**57,052**	**1.00**		**42,229**	↘	**1.00**		**21,969**	**1.00**		**11,021**	↘	**1.00**		**6,163**	**1.00**		**6,308**	↗	**1.00**		**2,373**

	Health Authority	05 Diabetes							06 Circulatory System							07 Ischemic Heart Diseases							08 Cerebrovascular Disease/Stroke						
		SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
01	Interior	1.09	*	1,086	↗	1.03		376	1.04	*	9,996	↘	1.13	*	2,532	0.99		4,456	↘	1.14	*	1,309	0.99		2,220	↘	1.03		446
02	Fraser	1.05	*	1,585	↗	1.07		612	1.08	*	15,456	↘	0.99		3,618	1.18	*	7,948	↘	1.09	*	2,067	1.01		3,411	↘	1.01		668
03	Vancouver Coastal	0.83	*	984	↗	0.79	*	344	0.89	*	10,446	↘	0.87	*	2,402	0.83	*	4,485	↘	0.74	*	1,105	0.99		2,712	↘	0.91		482
04	Vancouver Island	0.91	*	980	↗	0.97		338	0.97	*	10,451	↘	1.00		2,158	0.93	*	4,613	↘	0.99		1,099	1.00		2,532	↘	1.07		404
05	Northern	1.59	*	341	↗	1.40	*	159	1.15	*	2,153	↘	1.16	*	828	1.06		946	↘	1.17	*	422	1.06		439	↘	1.04		139
	Provincial Total	**1.00**		**4,977**	↗	**1.00**		**1,829**	**1.00**		**48,508**	↘	**1.00**		**11,541**	**1.00**		**22,451**	↘	**1.00**		**6,005**	**1.00**		**11,315**	↘	**1.00**		**2,119**

	Health Authority	09 Arteries/Arterioles/Capillaries							10 Respiratory System							11 Pneumonia and Influenza							12 Chronic Lung Disease						
		SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
01	Interior	1.13	*	721	↘	1.32	*	255	1.01		3,195	↘	1.01		718	0.89	*	1,153	↘	0.96		169	1.17	*	1,508		1.08		398
02	Fraser	0.82	*	787	↘	0.65	*	205	1.09	*	5,172	↘	0.97		1,110	1.16	*	2,283	↘	0.95		314	1.04		1,974	↘	1.01		548
03	Vancouver Coastal	1.05		799		1.09		276	0.94	*	3,595	↘	0.93		691	1.10	*	1,768	↘	1.14		267	0.74	*	1,117	↘	0.72	*	281
04	Vancouver Island	0.98		678	↘	0.91		205	0.90	*	3,176	↘	1.05		662	0.76	*	1,129	↘	0.86		143	0.99		1,381	↘	1.14		359
05	Northern	1.51	*	199		1.81	*	102	1.24	*	748	↘	1.22	*	259	1.13	*	264	↘	1.12		63	1.41	*	354		1.32	*	133
	Provincial Total	**1.00**		**3,184**	↘	**1.00**		**1,043**	**1.00**		**15,887**	↘	**1.00**		**3,441**	**1.00**		**6,598**	↘	**1.00**		**957**	**1.00**		**6,334**	↘	**1.00**		**1,697**

	Health Authority	13 Digestive System							14 Motor Vehicle Accidents							15 Unintentional Falls							16 Suicide						
		SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
01	Interior	1.11	*	1,307		1.20	*	564	1.63	*	549	↘	1.72	*	483	1.17	*	381	↘	1.13		89	1.14	*	423	↘	1.23	*	393
02	Fraser	0.96		1,780	↘	0.93		796	0.90	*	617	↘	0.89	*	547	0.87	*	440	↘	0.88		120	0.87	*	653	↘	0.85	*	606
03	Vancouver Coastal	0.91	*	1,327	↘	0.81	*	541	0.55	*	280	↘	0.50	*	230	0.81	*	330	↘	0.96		82	0.93		526	↘	0.84	*	472
04	Vancouver Island	1.00		1,281		1.09		522	0.88	*	310	↘	0.94		259	1.18	*	433	↘	1.07		83	1.17	*	451	↘	1.25	*	397
05	Northern	1.22	*	331		1.31	*	209	1.98	*	262		1.92	*	249	1.33	*	87	↘	1.28		39	1.12		164	↘	1.28	*	156
	Provincial Total	**1.00**		**6,026**	↘	**1.00**		**2,632**	**1.00**		**2,019**	↘	**1.00**		**1,789**	**1.00**		**1,671**	↘	**1.00**		**413**	**1.00**		**2,219**	↘	**1.00**		**2,026**

	Health Authority	17 Alcohol-Related Deaths							18 Medically Treatable Disease							19 Drug-Induced Deaths						
		SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75	SMR	(p)	Death	TR	PYLLI	(p)	D<75
01	Interior	1.25	*	2,331	↗	1.38	*	1,754	1.10		154		1.14		154	1.07		344		1.11		328
02	Fraser	0.81	*	2,556		0.77	*	1,945	0.91		255		0.90		255	0.92	*	631		0.93		613
03	Vancouver Coastal	0.78	*	1,865	↘	0.76	*	1,462	1.08		224		1.03		224	1.09		566	↘	1.04		545
04	Vancouver Island	1.16	*	2,212	↗	1.20	*	1,619	0.84		123		0.89		123	1.09		367		1.11		348
05	Northern	1.57	*	900	↗	1.62	*	760	1.24		69		1.27		69	0.66	*	89		0.66	*	89
	Provincial Total	**1.00**		**9,875**		**1.00**		**7,551**	**1.00**		**827**		**1.00**		**827**	**1.00**		**2,000**	↘	**1.00**		**1,926**

Please refer to footnotes on Table E

BRITISH COLUMBIA
The Best Place on Earth

Ministry of Health